DEPARTMENT OF HEALTH AND MENTAL HYGIENE Caroline County Health Department

P.O. Box 10, Denton, MD 21629 410-479-3666

PERA ON-S	AIT #	Reb				58 7	81	
	Prop	erty Owner			٨	Nap Block	Parcel	Lot
Issue	to: James Wa	mpray	license numb	134-W	1_			
				1				
	Septic tank capacity: minimumgo established to allow gravity flow of wastew hibit groundwater intrusion. Concrete risers of	over the inlet and o	box or pump outlet are recon	nmended. Set To	tank seams w ink on undistu	th non-shrir rbed or tam	ped soil.	to pro-
	ILE FIELD: minimum total length of tile	n less than 6 inches nstruction to determ connecting the tre	s of soil backti mine if the hei nches.	ill over any part ight of the tile i	of the tile fie nvert should t	eld then the be adjusted,	tile grad	r shall
C. 1	OTHER SPECIFICATIONS (See Page 3):	GE RESERVED ARE	A TO WATER	SUPPLY WELL:	A minimum	of 50 ft		
D. (OTHER SPECIFICATIONS (See Page 3):	peco appli	wed as	b Submi	and me	- Mic	war	<u> </u>
	Environmental Consulter	P LLC			0			
		4.8						
					111			
	9. D.		Date/0	-5-00				
Issue	by: Environmental Sanitarian		Date					
this stand of 9:00	permit expires // This is system and connect to the community sewerage a.m. on the date of completion of constructions. This permit cannot be transferred.	ge system when ava artment. The license	ilable. No par	t of this system	may be cove	rea on usea unty Health	Departm	ent by
	SEEPAGE TRENCH		TYF	PICAL BREATHER (VENT)			
	CROSS-SECTION		16 mesh screen					
	Seepage trench shall be a minimum of 3' from		in pvc grate co	2"-6"				
	the distribution box	1	with drilled vent holes					
	Soil Backfill	Original Ground Su Untreated Building	g Papergli	ue joints				
	2" 4"pvc	Stone/Gravel Backs 3/4" to 2" diameter	Fill ———————————————————————————————————	-				
		- Place stone backf: from trench bottom to tile invert de	n depth					

SCALE 1"=100

REB PROPERTY
FRAZIER BINT
MADSO BUX 7 POUB!

CAROLINE COUNTY HEALTH DEPARTMENT

Division of Environmental Health

SCP # N 61047	OWNER: Reb	CONTRACTOR:	Mowbras
SCF #_/v erer	Map 58, Block 7, Parcel_		
	Map 50, Block /, Parcel	, L0t	
REQUIRED INSPEC	CTIONS:		
	-		
A. Materials Approv	red (tank, pump, and mound location	Sanitarian	Date
B Sentic Tank and I	Pump Installation:	<u>61</u> 2	5-24-01
B. Septie Tank and		Sanitarian	Date
C. Sand Fill and Sto	ne Bed Installation:	<u>6</u> K	$\frac{11-27-01}{\text{Date}}$
	No on 11-27-00	Sanitarian 6 K	
D. Pipe Network Ins	stallation/Pump Test:	Sanitarian	<u></u>
	completed of	6K	5-24-01
E. Final Inspection/	Stabilization:	Sanitarian	Date
_			

FORMS-MIS(MOUND INSPECTION SHEET)

KR.

of mound. Hears has not been disturbed to full edges of meino " 5-24001 One corner of the mound, dury purp test-Grana/orgetation às sparce-extremely dry-ment

8/28/01 entre mound cooked with weeds 4-5 high - cared his Reb on 10/24/01-the mound must be Stabilized with my over winter - she will contact Mounty

17. The owner shall not concurrence of the lo	make any changes or authorize to cal Health Department.	the contractor to make any changes without
18. Additional Notes/ Sp	ecifications.	CAROLINE CULL TY HI
a. Second check valv	e required in the force main 300	feet from the pump chamber.
b.		
c .	See 7/ Set	
d.	•	

Accurate Environmental Consulting, LLC

9317 High Banks Dr., Easton, MD 21601

Phone: (410) 819-3166 Fax: (410) 763-7200

MOUND SPECIFICATIONS SUMMARY & TABLE OF CONTENTS

OWNER: Mary Reb **ROAD: Frazier Point** SECTION: BLOCK: MAP: 58 BLOCK: 7 PARCEL: 81 LOT: WATER TABLE: -24 in. DESIGN RATE: 600 gallons/square foot/day **Table of Contents** Lot Layout.....1 Mound Plan View......2 Mound Cross-Section View......3 Tank, Pump & Mound Elevations.....4 Distribution System Schematic......5 Pump Chamber Schematic......6 General Specifications......7-8 Specifications Summary A. Mound & Bed 1. Absorption Bed Width = 6 ft. 0 in. 2. Absorption Bed Length = ... 83 ft. 4 in. 3. Total Mound Width = 29 ft. 0 in. 4. Total Mound Length = 110 ft. 0 in. 5. Side Slope Setback = 13 ft. 0 in. 6. Upslope Setback = 11 ft. 6 in. 7. Downslope Setback = 11 ft. 6 in. 8. Upslope Sand Fill depth = 24 in. 9. Downslope Sand Fill Depth = 24 in. B. Distribution Network

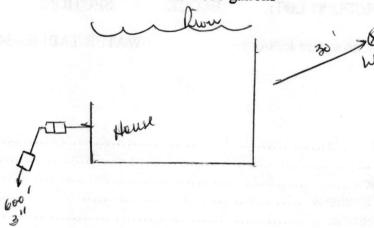
6. Length of Laterals From Manifold = ... 41 ft. 1 1/2 in.

5. Center Manifold

7. Number of Laterals =	4	SCP NO1047.	-
8. Space Between Laterals =	3 ft. 0 in.	SCP 1001011.	,
9. Lateral Diameter =		THEE LANDRY E	OI.
10. Perforation Diameter =	5/16 in.	at 20786 Frazier	1 T
11. Perforation Spacing =	42 in.		Lane
12. Number of Perforations Per Lateral =	11		
13. Space Between First Perforation & Man	nifold = 31 1/2 in.		

C. Pump

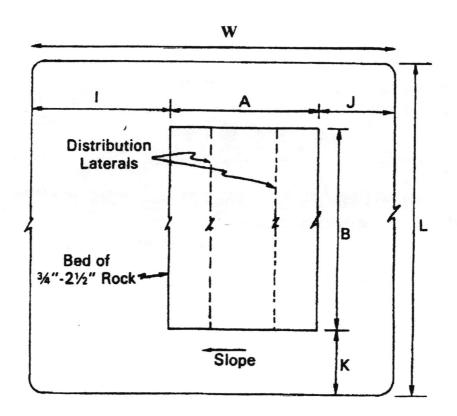
- 3. Dose = 100 gallons



110 mound 29

To Frederical

SAND MOUND PLAN VIEW



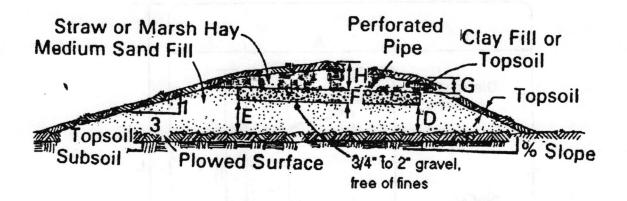
A = Bed Width =	6 ft. 0 in.

$$K = Sideslope Setback = \dots 13 \text{ ft. } 0 \text{ in.}$$

$$W = Total Width of Mound =$$
 29 ft. 0 in.

$$L = Total Length of Mound =$$
 110 ft. 0 in.

SAND MOUND CROSS-SECTION VIEW



D = Upslope Sand Fill Depth = 24 in.

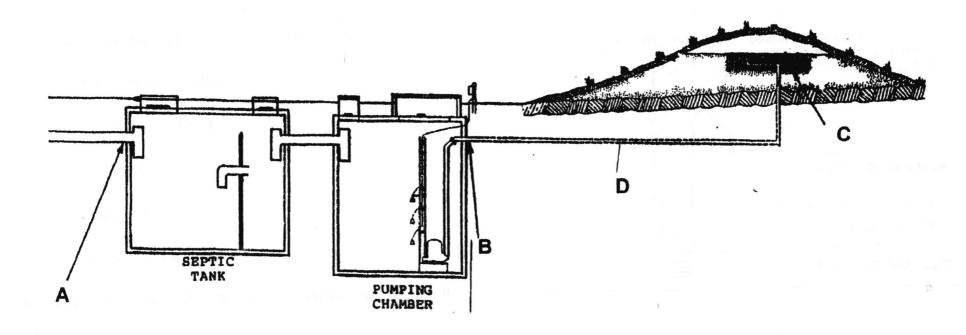
E = Downslope Sand Fill Depth = ... 24 in.

F = Bed Depth = 10 in.

G = Cap & Topsoil at Bed Edges = 12 in.

H = Cap & Topsoil at Bed Center = 18 in.

TANK, PUMP, & MOUND ELEVATIONS



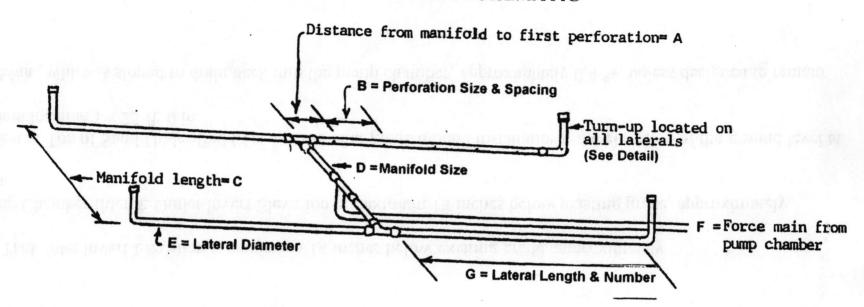
A = Septic Tank Inlet Invert Elevation = maximum 14 inches below existing grade, approximately ft. in.

B = Pumping Chamber Inlet & Outlet Invert Elevation = maximum 18 inches below existing grade, approximately ft. in.

C = Elevation of Top of Sand Under Bed (Or, in case of at-grade mound installations, the elevation of the ground level at the force main location) = 25 ft. 0 in.

D = Force Main, which is sloped to drain back into the pump chamber, approximately 0.4 %, unless designed to remain flooded.

DISTRIBUTION SYSTEM SCHEMATIC



A = Distance from manifold to first perforation: 31 1/2 in.

B = Use 5/16 " perforations on 42 " centers.

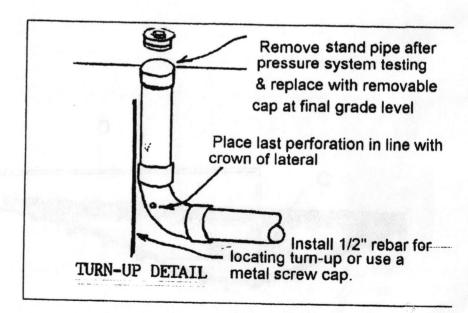
C = Manifold length: 3 '

D = 3 "diameter manifold.

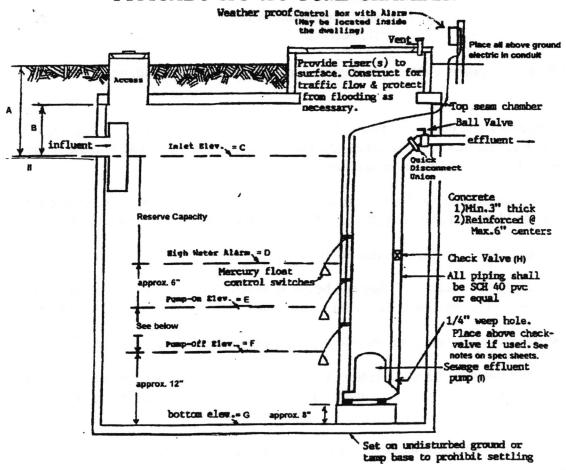
E = 1.25 " diameter laterals.

F = 3 " force main from pump chamber.

G = Lateral length: 41 ft. 1 1/2 in. Use 4 laterals.



TYPICAL 5' X 5' X 5' PUMP CHAMBER



A = See page 4

B = Inlet set as high as possible through wall of chamber.

I = Inlet Elevation: approximately 19 ft. 6 in.

D = High Water Alarm Elevation: approximately 17 ft. 6 1/2 in.

E = Pump On Elevation: approximately 17 ft. 1/2 in.

F = Pump Off Elavation: approximately 16 ft. 6 in.

G = Bottom Elevation: approximately 15 ft. 6 in.

H = Check Valve: Required

I = Sewage Effluent Pump to Provide 71.72 GPM @ 40 ft. TDH

Page 7 AEC Mound Specifications General Specifications

- 1. Septic tank shall be a 1500 gallon, concrete, top-seam, two-compartment tank with integral rubber gaskets.
- 2. All seams of the septic tank and pump chamber shall be sealed with a non-shrink grout. The pumping chamber shall have an access way to the surface and a cover. These risers are optional on the septic tank but recommended on at least the inlet end of the tank.
- 3. All construction shall comply with applicable state and county laws and regulations. The contractor shall be certified by the Maryland State Department of the Environment for sand mound construction.
- 4. Sediment control measures are the responsibility of the contractor.
- 5. Where trees are removed at the mound site they can be cut at ground level and the stumps left in place or removed with all lost soil replaced with approved washed sand. Remove the leaf litter and humus.
- 6. If topsoil is removed from the mound site it shall be replaced with approved washed sand fill.
- 7. The sand fill shall be approved by the local Health Department prior to transportation to the site. The sand must have an effective size between 0.25 and 0.50 mm with a uniformity coefficient of 3.5 or less.
- 8. The geotextile fabric shall be of a type approved by the local Health department.
- 9. The bed aggregate shall be washed, free of fines, 3/4" to 2" in diameter.
- 10. The cap shall be a soil that is free of coarse fragments, preferably a clay loam, silt loam, or loam.
- 11. The bed and tank locations must provide the specified horizontal design distance to the manifold with a minor variance of 5 foot allowed. Other distances may require recalculation of the specifications.
- 12. All piping shall be schedule 40 pvc with solvent welded fittings. The force main shall slope to the pump chamber to permit draining after each pump cycle unless otherwise specified below.
- 13. The contractor is responsible for contacting Miss Utility and for damages to utilities due to system construction.
- 14. The owner is responsible for obtaining a sediment control plan. Contact the local Soil Conservation Service.
- 15. Provide an audible and visual alarm in a NEMA 3R enclosure. All electrical work shall be in accordance with the National Electric Code and/or any other local codes. All above ground electric service shall be in conduit that is secured to the extent possible from mowers and trimmers.
- 16. Permanent seeding over the mound, or landscaping projects, shall take place within 15 working days after final grades are established. Contact the local Soil Conservation Service for recommendations. Re-establish unstabilized areas after six months.

HD calo

DESIGN FLOW = GPD GPD MOUND WIDTH = DESIGN INFILTRATION RATE 1.2 GPD/SQ.FT. MOUND LENGTH = ABSORPTION AREA = 500.0 SQ. FT. BED LENGTH (B) = 83.4 FT. BED WIDTH (A)= 6 FT. -24 IN. DEPTH TO WATER TABLE (Z) = SLOPE = UPSLOPE SAND FILL DEPTH (D) = 24 IN. DOWNSLOPE SAND FILL DEPTH (E) = 24 IN. CAP AND TOPSOIL DEPTH AT BED CENTER (H) = 18 IN. CORRECTION FACTORS CAP AND TOPSOIL DEPTH AT BED EDGE (G) = 12 IN. DOWN UP-SLOPE SLOPE SLOPE TOTAL BED DEPTH (F) = 10 IN. 2 1.06 0.94 1.14 0.89 1.22 0.86 6 SIDESLOPE SETBACK (K) = 156.0 IN. 1.32 8.0 8 UPSLOPE SETBACK (J) = UPSLOPE CORRECTION FACTOR = 0.86 10 1.44 0.77 118.7 IN. 1.57 0.73

DOWNSLOPE CORRECTION FACTOR =

1.22

TOTAL WIDTH OF MOUND (W)

DOWNSLOPE SETBACK (I) =

29.9 FT.

168.4 IN.

TOTAL LENGTH OF MOUND (L)

109.4 FT.

DEPARTMENT OF HEALTH AND MENTAL HYGIENE Caroline County Health Department

	P.O.	Box 10, L	Jenton,	3MD 216	29 _W 3	****		
		410-4	479-366	6	0 0 15	Property of the second		
APPLICATION (page : ON-SITE SEWAGE DI	2) FOR SPOSAL PERMIT for:	Reb erty Owner		OCT 2	2000	58 Map	7 8/ Block Parce	/ Lot
system on your proper installers who are licer and select a contractor	ne County Health Departmenty, you shall submit specific systems. When you have selected and contractor and cannot be	cations for the sy ems in Caroline (a contractor then	ystem to the County. Use both of you mother contr	Caroline Cou the following n must sign thi actor unless o	inty Health D ninimum speci s form, and r	fications to leturn it to c	Contact septi help you get our office. Th	c system estimates ne permit
Health Department U	se Only: Minimum Specific	ations.						
established to all	ty: minimum ga ow gravity flow of wastew intrusion. Concrete risers of	ater to distribution	on box or p	ump chamber:	seal tank sec	ms with noi	n-shrink grou	t to pro-
ground surface, h	mum total length of tile d, inches below the lowever, if this will result in the Department prior to corporovide a vent in the line	he tile line invert I less than 6 inch nstruction to dete	r; tile invert nes of soil bo ermine if the	depth at the ickfill over an	part of the	ile field the	n the contract	ctor shall
	PTIC SYSTEM AND SEWAG							
O. OTHER SPECIFICA	ATIONS (See Page 3): 5	pecs app	roved	as sub	mitted	by .	Accura	te
Environm	intre Consulter	e LLC				0'		
the licensed sewage co are shown below. I und to the licensed sewage	ermit to allow construction of contractor identified below. For the right to be contractor to coordinate varietion. Proposed specs or	Proposed specs or have anyone prewith the Health I	changes to	the minimum	or an engine	on this pager. I also he	ge and on th reby transfer	authority
Signature of owner or	authorized agent				Date	9/	26/0	0
n accordance with the TAMES EX Contractor (print)	Caroline County Sanitary (Nown Jawa Gontroftor's Sign	2 7 Mion	Mugx	by apply for a	Sanitary Cor	9/	ermit for this	property
	SEEPAGE TRENCH CROSS-SECTION			TYPICAL BREA	ATHER (VENI)			
	Seepage trench shall be a minimum of 3' from the distribution box		16 mesh so in pvc gra or solid o with drill vent holes	ate cap cap 2"-6"				
	Soil Backfill	Original Ground Untreated Build Stone/Gravel Ba	l Surface	glue joints				
	O-4"pvc	3/4" to 2" diam — Place stone bac from trench bot to tile invert	ckfill ttom depth					



Caroline County Health Department

Out and	,
	-6179
APPLICATION FOR ON-SITE SEWAGE DISPOSAL PERMIT Directions: Complete Sections A-N, attach appropriate fee, and mail to address	410 61
A) Owner's Name: Mary Re B) Day Phone: (410)	163-7807
A) Owner's Name: Wary Co. C) Street or P.O. Box: 18 Laute Street ALINE CO. HEALTH DEPT. D) City/State/ZIP: Easton, MD 2160 (Map 58 Block 7 P.	arcel 8/ (Lot 4/)4
The section Frezier Foint	arcti
F) Is lot located within the limits of an incorporated town? Yes No No	status report)
F) Is lot located within the limits of an incorporated town: 105 G) Building: New (If new, attach copy of up-to-date perc approval letter or property We will new the standard of the standa	aluding driveway)
c and all Calbillia out	
Desidence (#bedrooms -, would come	
Commercial (Use & #people using facility ea 24 hrs.	
D Water Supply: Existing ()shallow well () deep well () municipal connection	
Proposed (deep well () municipal connection	TO MAYES
J) Stake the proposed location of home and sewage reserved area on your property. NOTE: A CHANGE OF APPLICATION/PERMIT AFTER HEALTH DEPARTMENT VISITS THE ACHANGE OF APPLICATION AN ADDITIONAL \$50 FEE WILL BE DUE.	The state of the s
K) Provide a scaled drawing showing the location of your property lines, house (existing a as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, so as other existing and/or proposed construction such as driveways, electric service, pools, as a solution of the designation of the designation of the driveways are driveways.	
L) I have reviewed the information on this application and hereby state that the information on this application and hereby state that I will discont	ormation is correct.
L) I have reviewed the information on this application and hereby state that the information on this application and hereby state that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that the community system when community sewerage is available.	I also authorize the
L) I have reviewed the information on this appropriate and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand that this permit will be issued on an interim basis only and that I will discont understand the purpose of providing Caroline County Health Department to inspect my property for the purpose of providing Caroline County Health Department to inspect my property for the purpose of providing Caroline County Health Department to inspect my property for the purpose of providing the control of the purpose of providing the control of the county of the purpose of providing the control of the county of the control of the control of the county of the county of the control of	or confirming minimum
Caroline County recall Department and to determine compliance with	- carvage contractor 5
specifications for a santary of that I must return these specifications with my signature pair	for this permit. I also
signature William I mount of the second to the second to the second to	' '
understand that the sanitary construction permanent in \$200 fee.	ew construction \$400 fee
understand that the sanitary construction permit will be issued to inventor understand that the sanitary construction permit will be issued to inventor will be inventor sanitary construction permit will be issued to inventor will be inventor in the inventor will be inventor in the inve	
M) Type (check one): () Tank only \$75 fee. () Repair/Relievable Make check or money order payable to "Caroline County Health Department"	1
	8/22/00
N Signature of legal owner or agent authorized in writing DECEMPT# 0343 \$ 400. DATE	Date /
N) Signature of legal owner or agent authorized in writing UEALTH DEPARTMENT USE ONLY: RECEIPT# 23431 \$ 400, DATE	PD
UEALTH DEPARTMENT USE ONLY: RECEIPT# 45 15	102/

500 95.00

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