

*10/14/77*  
*10/18/77 final*

*Approved 4/11/75 T.S.B.*

# PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

*03-304272*

ELLICOTT CITY

DISTRICT 3rd

INDEXED

DATE 10/4/77

P 27012

A 24592

Bollinger Brothers IS PERMITTED TO INSTALL  ALTER

ADDRESS Bollinger Road, Westminster, Maryland PHONE \_\_\_\_\_

A SEWAGE DISPOSAL SYSTEM LOCATED AT \_\_\_\_\_

SUBDIVISION Annandale ROAD 1711 Underwood Road LOT 4

PROPERTY OWNER Fred J. Pipes L. Jerry Lewis

ADDRESS 13555 Old Frederick Road, Sykesville, Md. 21784

SPECIFICATIONS

DRAIN FIELD \_\_\_\_\_ DEPTH \_\_\_\_\_ FEET, BOTTOM AREA \_\_\_\_\_ SQ. FT.

SEEPAGE PITS \_\_\_\_\_ ABSORBENT SIDE-WALL AREA \_\_\_\_\_ SQ. FT.

SEPTIC TANK CAPACITY \_\_\_\_\_ GALLONS

FOR GARBAGE GRINDER, INCREASE DISPOSAL AREA 22% & TANK CAPACITY 50%.

OTHER DRY WELL AND TRENCH --Dry well to have 350 sq. ft. absorbent sidewall area. Inlet at 4 ft. below original grade and maximum depth 11 ft. below original grade. Locate dry well 10 ft. from right property line and 125 ft. from front of lot (near Underwood Road). If 3 bedroom trench to be 30 ft. long for a total sidewall area of 210 sq. ft. If 4 bedroom trench to be 55 ft. long for a total sidewall area of 385 sq. ft. Trench to run from dry well towards lot 3 with contour, parallel to Underwood Road.

NOTE: CALL FOR INSPECTION OF TRENCH BEFORE PLACING STONE IN TRENCH. NOTE: ALL PIPE FROM HOUSE TO DISPOSAL AREA MUST BE CAST IRON. PERMIT VOID AFTER THREE YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA ACCEPTED.

PLANS APPROVED BY David J. O'Neill DATE 9/10/76

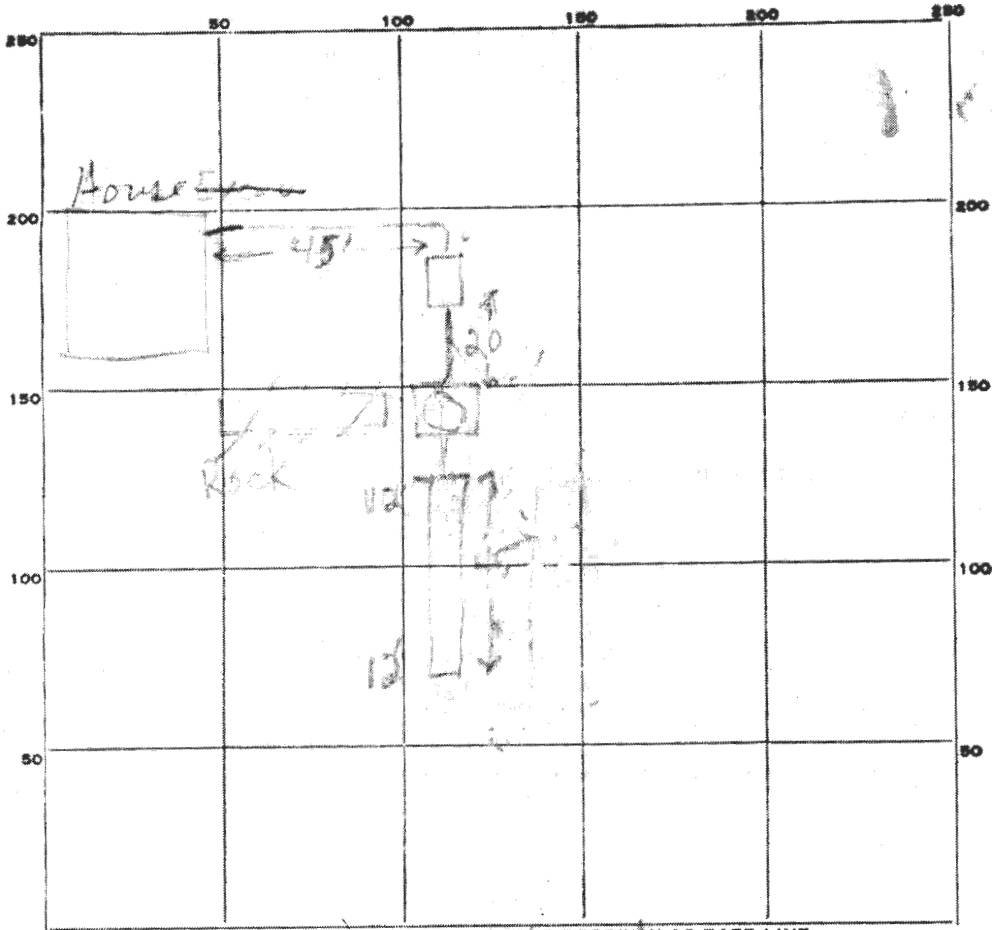
FILL SEPTIC TANK AND DISTRIBUTION BOX WITH WATER BEFORE CALLING FOR AN INSPECTION. COVER NO WORK UNTIL INSPECTED AND APPROVED.

NEITHER THE HOWARD COUNTY COMMISSIONERS NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

*Bollinger reports possible rock - if rock 8' deep or less Run towards underwood Rd if rock 8' or deeper cover with 2' soil - run trench longer for 1 side area*

BLDG. PERMIT SIGNED AND RETURNED 4/25/85  
*Serial # 65389*

*24592*



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

*Underwood Road,*

PERMIT CARD

SEPTIC TANK, LEVEL \_\_\_\_\_

CLEANOUTS SS/DW

DISTRIBUTION BOX, LEVEL \_\_\_\_\_

TILE FIELD, DEPTH 12 FT. TRENCH WIDTH 3 FT.

GRAVEL DEPTH \_\_\_\_\_ IN. TOTAL LENGTH 45 FT.

NUMBER OF TRENCHES 1 TOTAL BOTTOM AREA \_\_\_\_\_

SEEPAGE PITS, INSIDE DIAMETER \_\_\_\_\_ FT. DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS to add stone to trench, OK is cover up to  
Drainwell 33/11/77 T.S.D.  
4/11/78 Final connection made to house

DATE SYSTEM APPROVED 4/11/78

INSPECTOR T.S.D.

10/18/07

## Lewis Plan Comments (Barry Glotfelty)

1. Allow force main to drain into manifold and laterals. Eliminate  $\frac{1}{4}$ " drain hole in force main. This allows one <sup>f.m.</sup> section to drain back to pump pit and one section to drain to bed. OK
2. It is probably a simpler design for contractor to understand if all holes are spaced 7.5' apart with first and last holes being 3.75' from bed ends. Current configuration is OK but clearly indicate that manifold is 2.5' from end of bed. OK
3. What are the existing grade elevations at corners of the bed? This info is needed to determine depth of bed below existing land sfc. to assure treatment zone is maintained and to determine fill cap requirements at different locations over bed. OK
4. Revise to show selected pretreatment unit. Micro fast could still be used but property owner must realize that grant amount will be based on lowest bid unit. OK
5. Indicate pump chamber riser to extend 6" above finished grade. OK

6. Min. dose is

$$\begin{array}{r} \text{volume of force main} \quad 42 \text{ gal} \\ + 5 \times \text{volume of laterals} \quad + 174 \text{ gal} \\ \hline 216 \text{ gal.} \end{array}$$

$$\begin{array}{r} 30 \\ 6.5 \\ \hline 180 \\ 15 \\ \hline 195 \end{array}$$

Use the larger of Design flow  $\div 6$  or  
5 x volume of laterals + f.m. volume.  
Calculation in plan used volume for 2 1/2" pipe  
for laterals instead of 2" laterals.

7. Include a ~~turn-up~~ on each lateral. OK even if only 1.

8. Revise float settings to reflect revised dose.

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$$\begin{array}{r} 40 \\ 6 \\ \hline 240 \\ + 20 \\ \hline 260 \text{ gal dose} \\ \hline \text{OK} \end{array}$$

6.5" OK