# DORCHESTER COUNTY HEALTH DEPARTMENT
## ENVIRONMENTAL HEALTH DIVISION

3 Cedar Street
Cambridge, MD 21613

410-228-1167
FAX: 410-901-8192

Roger Harrell, MHA
Health Officer


July 21, 2005

Mr. Kirk Salvo
Dogwood Bracts LLC
P.O. Box 75
Upper Falls, MD 21156

Dear Mr. Salvo,

Re: Report of Site Evaluations for Onsite Sewage Disposal for 2 Subdivisions of Land
Proposed 13 Lot Subdivision, Wrights Wharf Rd. & Hunting Creek Rd.
Tax Map 4, Parcel 4
Proposed 4 Lot Subdivision, Wrights Wharf Rd. & Pinetop Rd.
Tax Map 4, Parcel 43
Site Evaluation Number: 1906

Site evaluations for the referenced subdivisions were conducted by this office from 2/28/2005 through 7/21/2005 with assistance from Kirk Salvo of Dogwood Bracts LLC. The attached table summarizes the site data collected so far. The original application was for 34 lots. The depth to water and other factors reduced the proposal to the latest proposal of 17 lots. The lot numbers used here are from the latest subdivision preliminary plans by Lane Engineering, Inc. dated 6/23/2005. The sewage reserve areas shown on the preliminary plan for parcel 43 are approvable as submitted. The sewage reserve areas shown on the preliminary plan for parcel 4 must address the following:

1. SRAs to accommodate 4 bedroom homes for sand mounds or at grade mounds must be at least 100' long parallel to the contour and an area of at least 12,000 square feet.
2. The SRAs must be at least 10 feet away from any property line.
3. Proposed well locations must be shown on the plat. All wells must be at least 100' from the SRAs.
4. A groundwater appropriation permit will be required prior to final approval.

If you have questions concerning this matter, please call me at 410-228-1167.

Sincerely,

William C. Forlifer, R.S.
Director of Environmental Health

cc: Sean Callahan, Lane Engineering, Inc.

Wright Wharf Estates Site Evaluation Details

Parcel 4, Open Field, GPR Area A

| Lot | Depth to High Water | Soil Permeability Test Type | Depth | Result | Proposed Acreage | Possible Sewage Disposal System Type |
|---|---|---|---|---|---|---|
| 1 | 2' | 12" dia. Std | 16" | 3 min/in | 3.1 | At Grade Mound |
| 2 | 2' | 12" dia. Std | 16" | 3 min/in | 1.5 | Sand Mound, 2 foot fill |
| 3 | 2' | 12" dia. Std<br>12" dia. Std<br>SRI | 16"<br>14"<br>15" | 23 min/in<br>17 min/in<br>50 min/in | 3.2 | Sand Mound, 1 foot fill |
| 4 | 3-4' | 12" dia. Std | 17" | 2 min/in | 2.3 | At Grade Mound |
| 5 | 5' | 12" dia. Std | 16" | 10 min/in | 2.1 | Shallow Trench |
| 6 | 4-5' | 12" dia. Std | 16" | 7 min/in | 1.4 | At Grade Mound * |
| 7 | 5' | 12" dia. Std | 16" | 7 min/in | 0.9 | Shallow Trench |
| 8 | 4-5' | 12" dia. Std | 18" | 6 min/in | 0.9 | At Grade Mound * |
| 9 | 3-4' | 12" dia. Std | 18" | 4 min/in | 1.0 | Sand Mound, 1 foot fill |
| 10 | 2-3' | 12" dia. Std | 18" | 6 min/in | 1.0 | Sand Mound, 2 foot fill |
| 11 | 2-3' | 12" dia. Std | 18" | 8 min/in | 1.0 | Sand Mound, 2 foot fill |
| 12 | 2-3' | 12" dia. Std | 18" | 6 min/in | 1.3 | Sand Mound, 2 foot fill |
| 13 | 2' | 12" dia. Std | 18" | 8 min/in | 11.9 | At Grade Mound |

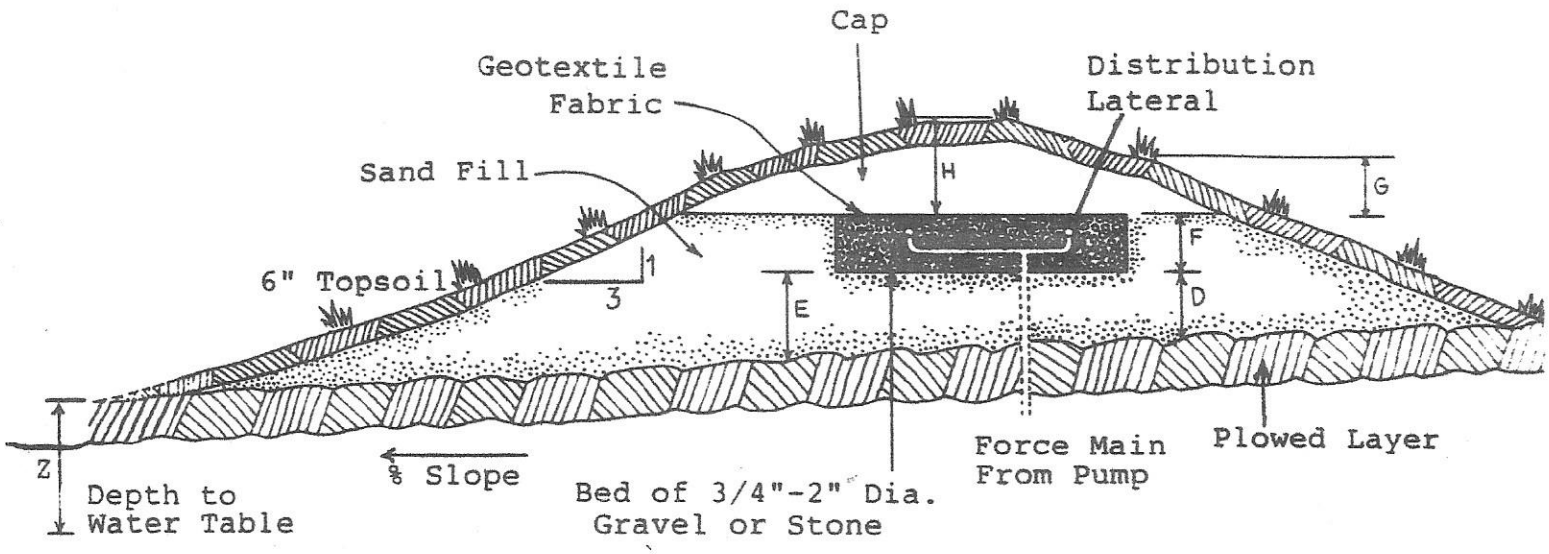
Parcel 43, Woods, GPR Area B1

| Lot | Depth to High Water | Soil Permeability Test Type | Depth | Result | Proposed Acreage | Possible Sewage Disposal System Type |
|---|---|---|---|---|---|---|
| 1 | 1.0-1.3' | 12" dia. Std | 15" | 5 min/in | 2.1 | Sand Lined Trench or At Grade Mound |
| 2 | 1.5-2.0' | 12" dia. Std | 16" | 2 min/in | 2.0 | Sand Lined Trench or At Grade Mound |
| 3 | 1.0-1.6' | 12" dia. Std | 16" | 2 min/in | 8.4 | Sand Lined Trench or At Grade Mound |
| 4 | 1.0-1.5' | 12" dia. Std | 16" | 2 min/in | 3.0 | Sand Lined Trench or At Grade Mound |

* Reconfigured SRA should allow for Shallow trench systems

SAND MOUND

Cross Section




D = Upslope Sand Fill Depth (in.)

E = Downslope Sand Fill Depth (in.)

F = Bed Depth (in.)

G = Cap & Topsoil Height at Bed Edges (in.)

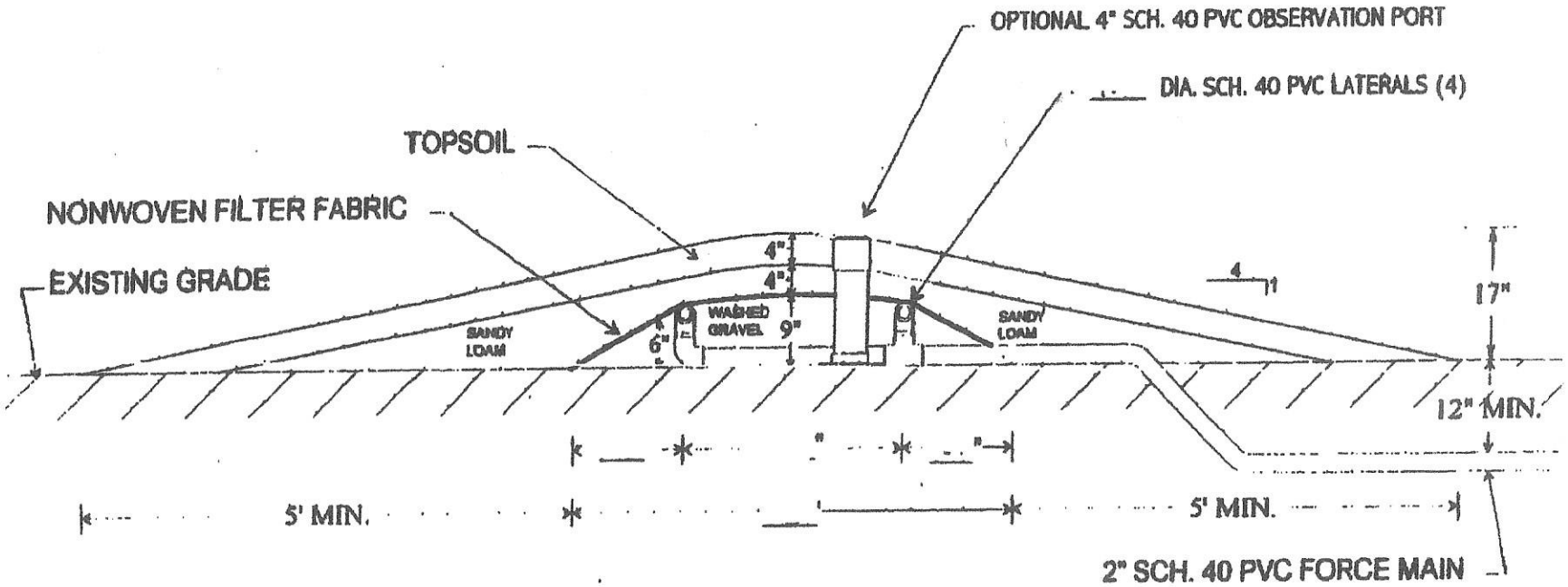
H = Cap & Topsoil Height at Bed Center (in.)

Z = Depth to Water Table (in.)

FIGURE 3.1 - DESIGN WORKSHEET CROSS-SECTION

To: Kirk Salva

# AT-GRADE MOUND DETAIL
# LEVEL SITE
# NOT TO SCALE




NOTES:

1. The entire footprint of the mound must be chisel plowed just prior to construction.
2. Each lateral will have _____, 1/4" discharge holes, _____" o.c., with holes down.
3. The first hole will be _____" from the center of the manifold.
4. Each lateral end must be fitted with an elbow, threaded adapter and plug.