### Design Data

**On-Hydraulic Loading**
- **S.F.** Double Spreader: 75 gpd/200 S.F. = 0.375 gpd
- **Total Rain Area**: At least 1000 square feet, maximum 2000 square feet
- Rainfall is assumed at 0.6 inches per day
- **Drying Time**: 60 days

**Flow Calculation**
- Daily flow = 111.9 gpd x 0.65% = 67.79 gpd
- Septic tank provided = 2000 gallons

**Factors**
- **On-rate** = 0.6 ml
- **Loading factor** = 3.2 gals/ft/day
- **Drying factor** = 0.7 ft/day

**Area Requirements**
- **Loading provided** = 2.27 sf x 0.65 gals/sf/day = 1.44 gpd/ft x 3 = 4.32 gpd
- **Drying provided** = 1.15 sf x 0.71 gals/sf/day = 0.80 gpd/ft x 3 = 2.40 gpd
- **Total loading provided** = 4.24 gpd/ft x 3 = 127.2 gpd/ft
- **Infiltration loading** = 111.9 gpd (see A above)
- Leaching area must be 50% larger for garbage disposal
- Leaching allowed under the Town of Gay Head Board of Health requirements is the Town Title 5 - Regulations.

### Soil Data

**Date 8-7-87**
- **Deep Test Hole 2**
  - **Elevations**
    - Surface Elev.: 97.0
    - **Witnessed by J. W. Greiner**
  - **Soil Log**
    - **Sand**
    - **Clayey Brown Compacted Sand w/Cobbles & Boulders**

**Date 8-7-89**
- **Percolation Test Data**
  - **Elevations**
    - Surface Elev.: 97.0
    - **Witnessed by K. Colebrooke**
  - **T.M.**
    - Date: 8-7-89
    - Depth: 92.9
    - Elevation: 3

---

**NOTES**

1. Elevations refer to an assumed datum: Bench Mark (BM) shown on Plot Plan. Elev: 100-00
2. Soil tests performed in accordance with the Massachusetts State Environmental Code
3. All construction to conform to the Massachusetts State Environmental Code (Title 5) Health requirements.
4. All topsoil, subsoil, and deleterious material, if any, must be removed from beneath the facility and for a distance of 10 feet from all directions therefrom and to a depth of the natural permeable soil. Backfill, as required, with clean gravel or sand, clay, organic matter, and large boulders, having a percolation rate of 0.6 ml per minute per inch or less.
5. The design engineer does not warrant the character of the ground basins and other underground structures.
6. All waste should in the leaching field must have less than 0.2% percent (percent) of the number 200 sieve as determined by the AASHTO test methods T-71 and T-27 (not)
7. Tight joint piping to consist of Polyvinyl Chloride pipe (PVC), Schedule 40 unless between concrete and piping to be made watertight.
8. Finished grading to be done in accordance with Plot Plan and Schedule of Elevation.
9. Heavy machinery shall not be permitted to pass over the leaching facility during.
10. No permanent structure may be constructed over the 100% expansion area.
11. SMITH & DOWLING will not be responsible for the performance of this system shown. Any alterations must be approved in writing by the design engineer.
12. The local Board of Health shall require inspection of all construction by the design engineer of the Board of Health, and require such person to certify in writing that all work in accordance with the terms of the permit and the approved plans.
13. For proper performance, the septic tank should be checked at least once a