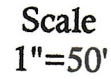


OSSF PLOT PLAN
17502 Hamill Drive
Rosharon, TX 77583



Roy Varnon, R.S.
1514 Laird Street
Houston, TX 77008
(713) 426-4121

Proy Varnus
7/8/05

PROPOSED OSSF DESIGN

PROPERTY OWNER: John & Holland Mathew

SITE ADDRESS: 17502 Hamill Drive
Rosharon, TX 77583

LEGAL DESCRIPTION: Lot 33, Block 8, Suncreek Estates, Section 2

DESIGN PARAMETERS:

Structure: New 4 Bedroom Home

Size: 3450sq.ft.

Daily Flow: 300gpd

Application Rate: 0.041/sq.ft./day

Area Required: 7317sq.ft.

Area Designed: 8482sq.ft.

SYSTEM COMPONENTS:

Pre-treatment tank (Trash Tank): 400gallons (Built into Hoot H-500 AN,CP)

Treatment unit (Aerobic): Hoot H-500 AN,CP (or equivalent)

Pump tank: 760gallons (Built into Hoot H-500 AN,CP)

Pump: Hoot Blaster 12EB ½ HP (or equivalent)

Supply line: 1" Class 200 (or equivalent)

Sprinklers: Rain Bird R-50C LA Nozzle 2.0 (or equivalent)

Timer: Yes (Set to spray between 12:00 a.m. and 5:00a.m.)

Disinfection: Chlorination

SITE EVALUATION:

Topography: Slight, <2%

Vegetation: Natural grasses, brush and mature trees Palmetto plants

Site Drainage: Poor

Flood Hazard: Inside 100 Year Flood Plain, Zone AE
FIRM Panel 075 H
See "100 Year Floodplain Requirements" attached.

Water Supply: Public water

Soil Evaluation: 0 -18" Clay High shrink/swell Dark gray Red mottling 0% gravel

Application Rate: 0.041g/sq.ft./day (Surface Application)

Indication of Seasonal Saturation: Yes

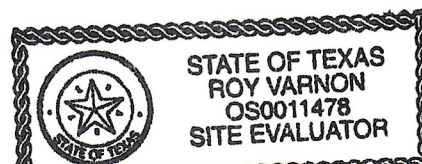
Depth: <6"

Soil is not suitable for a standard system.

I Roy Varnon R.S., a Registered Sanitarian, #3180, & Site Evaluator, #OS0011478, did personally conduct the site evaluation on July 7, 2005.



Roy Varnon
7/8/05



APPLICATION AREA:

The application area shall be covered with grasses, evergreen shrubs, bushes or trees. Bare areas shall be seeded or sod with St. Augustine or other high uptake grasses. Areas subject to dormant or dying vegetation during winter months shall be over-seeded with winter rye grass or other cold tolerant vegetation. Plants intended for human consumption shall not be grown inside the application area. Grasses shall be cut as needed to prevent interfering with sprinkler operation. No surface improvements (Buildings, sidewalks, driveways, patios etc.) shall be constructed or placed inside the application area. Owner shall insure that application area is graded as needed to drain surface water.

MAINTENANCE:

A maintenance contract shall be maintained for the life of the system. The property owner or occupant shall insure that the system is provided with electricity at all times and that the disinfection unit is supplied with chlorine. Any suspected malfunction shall be reported the maintenance company as soon as possible. The property owner or occupant shall operate the on-site sewerage facility according to the owner's manual.

GENERAL NOTES:

Garbage disposals should not be used in conjunction with any on-site sewerage facility. Grease, cigarette butts, personal hygiene products, and other trash shall be disposed of in the garbage.

Water softener should not discharge into the sewerage facility.

Water conservation measures should be taken to help insure the proper operation of the on-site sewerage facility. Laundry shall be evenly spread throughout the week (No "wash day").

Electrical wiring shall be in accordance with the current edition of the National Electric Code.

Pump shall be rated by the manufacturer to pump sewerage or sewage effluent.

Insure that all lids, seams, risers, inlets, outlets and inspection ports are adequately sealed to prevent water infiltration.

Pressure relief/sample valve shall be installed and directed downward inside the pump tank to relieve excess pressure, provide agitation and help prevent extreme septic conditions inside the tank.

PUMP TANK DESCRIPTION:

(760gallon pump chamber built into Hoot H-500 AN,CP)

Actual volume below inlet: 760gallons

Float Settings:

Dimensions:

Depth below inlet: 52"

Alarm/Override: 39.5"

Pump On: 15"*

Gallons per inch: Average 14.6

Pump Off: 15"*

*PVC probe with stainless steel bolt-No moving parts as with float activation. (Timer controlled)

Reserve Capacity: 180 gallons

Dosing Volume: 360 gallons

Static Volume: 220 gallons



100 Year Floodplain Requirements

- 1: The aerator and other electrical components shall be installed 18" above base flood elevation. (Typically finished floor level for a newly constructed home)
- 2: All tank openings shall be sealed or have risers extending 18" above base flood elevation.

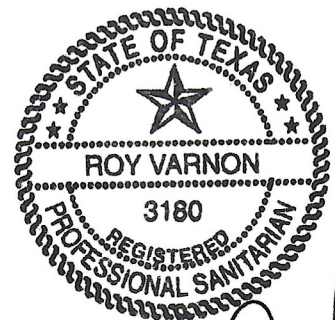
Buoyancy Statement for Hoot H-500 AN, CP

The Hoot H-500 AN, CP unit has the pump tank built into the unit with the pre-treatment and aerobic tank. Therefore as long as the pre-treatment tank and aerobic tank are full of effluent (In-use condition), buoyancy is not a potential problem.

Backfill excavation to top of tank with proper backfill material.

Install tank as high as possible in house pad to prevent excessive riser height.

See elevation certificate to verify base flood elevation or refer to finished floor level of home.
(Finished floor level of home may be higher than required.)



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