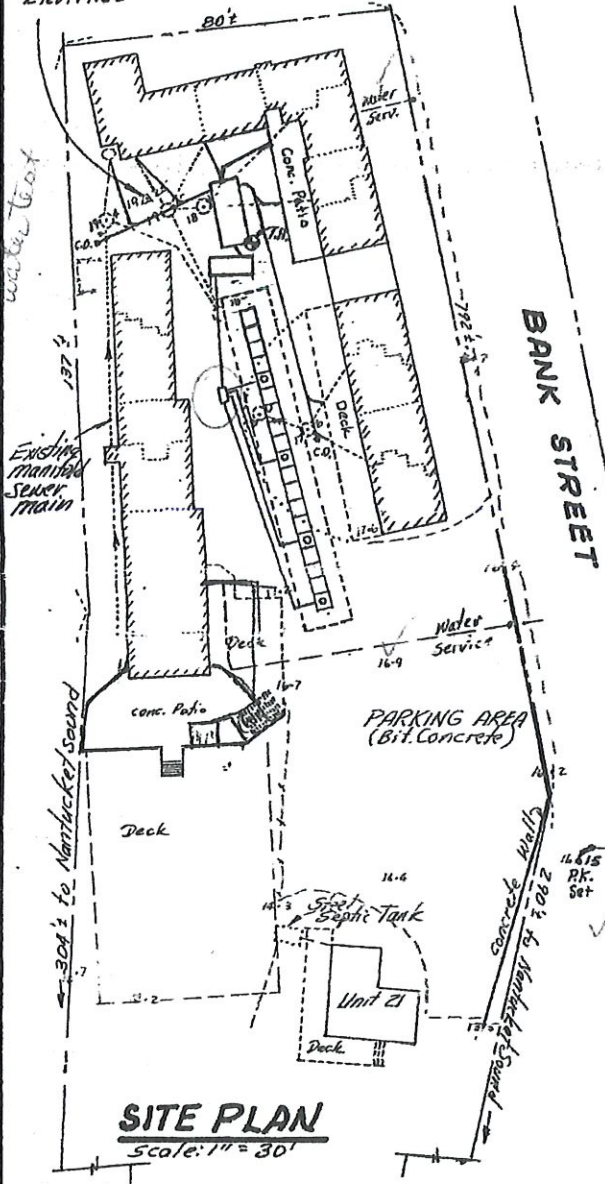


BENCH MARK
Stk. w/ back
Elev. 19.25

SYSTEM PROFILE

LOCATION MAP
1:595 1" = 2000'
ASSESSORS MAP 7
PARCEL F 2
Area: 43,048 sq. ft.



SITE PLAN
Scale: 1" = 30'

SYSTEM DESIGN

Design Flow: 18 bedrooms @ 140 gal./hr = 2520 gal.
 Septic Tank: 2520 gal x 150% = 3780 gal.
 Use 4000 gal. Tank
 Leaching Facility: 19- Galleys w/ 4' store
 Bottom: 8'4" x 12" x 1.0 gal./sf = 1008 gal.
 Sides: (8'4" x 12") 2 x 3.25 x 2.5 gal./sf = 1568 gal.
 2568 gal.
 Garbage disposal not permitted

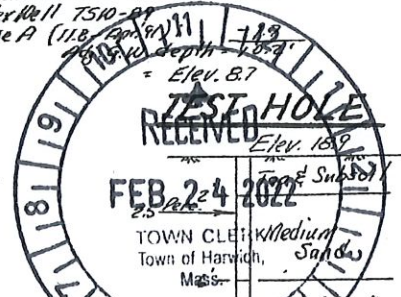
NOTE:

- Existing cesspools are to be pumped and backfilled with sand or removed.
- Existing pavement between buildings is to be removed & replaced with topsoil & seeded.
- All areas disturbed by construction are to be shown on the plan.

A) Dig Safe to be notified prior to const.

GROUNDWATER ADJ.

Groundwater Found: 11.9'
 Inter Well 7510-87
 Zone A (11.8' depth) 7.8'
 = Elev. 8.7



PERCOLATION

24 gallons water in
 11 minutes 16 seconds
 at 2.5' depth.
 Rate: < 2 min./inch
 Date: May 22, 1991
 Witness: H. Schnitzer
 Martin E. Moran, P.E.

MORAN ENGINEERING

41 MAIN STREET, SO. HARWICH, MA 02543
 432-2878

TOWN OF HARWICH
SITE PLAN & SEWAGE DISPOSAL SYSTEM
FOR
SANDPIPER COURT
16 BANK STREET

PROJECT: 91-196 SCALE: 1" = 30' DATE: SEPT. 9, 1991



James C. Moran

PUMP SYSTEM (DUPLIX)

- 1) Myers submersible sewage pump (SRMA-A) - 2 required.
- 2) Duplex control panel (CE-11 DW)
- 3) High water alarm with level switch (TA-101)
- 4) Waterproof junction box (SJBD-3).
- 5) Two (2) fixed level switches (FLCW-25).
- 6) Support switch bracket (SFLCW-3).
- 7) Check valve (CV-200) - 2 required.
- 8) Two (2) 2 inch gate valves.
- 9) Set drawdown at 2.5 feet.
- 10) Chamber - Use 1500 gal. heavy duty septic tank. Opening above pumps will have 3' minimum (inside) diameter access manhole to surface. Frame & cover at surface will be provided
- 11) PVC piping will be utilized:
 - a) Gravity lines: 4 inch dia. PVC Sch 40
 - b) Force Main: 2" dia. PVC 150 psi pressure pipe.
- 12) Sequence of operation:
 - a) Pumps Off.
 - b) Lead pump on
 - c) Alarm & lag pump on
 - d) Pumps must alternate

DISTRIBUTION BOX

- 1) Precast unit - DB-9
- 2) 2" dia. inlet force main will be adopted with a sanitary tee extending 6 inch below inlet invert.

SEPTIC TANK

- 1) Precast unit - 4000 gallon capacity
- 2) 2 Access manholes to surface w/ frame & cover

GALLEY

- 1) Precast unit - 4'x4'x4' suitable for H₂O loading
- 2) 4 access manholes to surface w/ frame & cover

NOTES

- 1) Existing cesspools are to be pumped and backfilled with clean sand and/or removed where necessary.
- 2) Prior to construction, DIG SAFE and Harwich Water Department will be notified for mark out of utilities by the contractor.
- 3) All areas disturbed by construction will be replaced in kind or in accordance with dictates of the owner.



MORAN ENGINEERING, INC.

841 MAIN STREET, SO. HARWICH, MA 02551
432-2678



James C. Moran

SANDPIPER COURT - 16 BANK STREET

PROJECT: 91-196

DATE: SEPT. 9, 1991

SHEET 2 OF 2