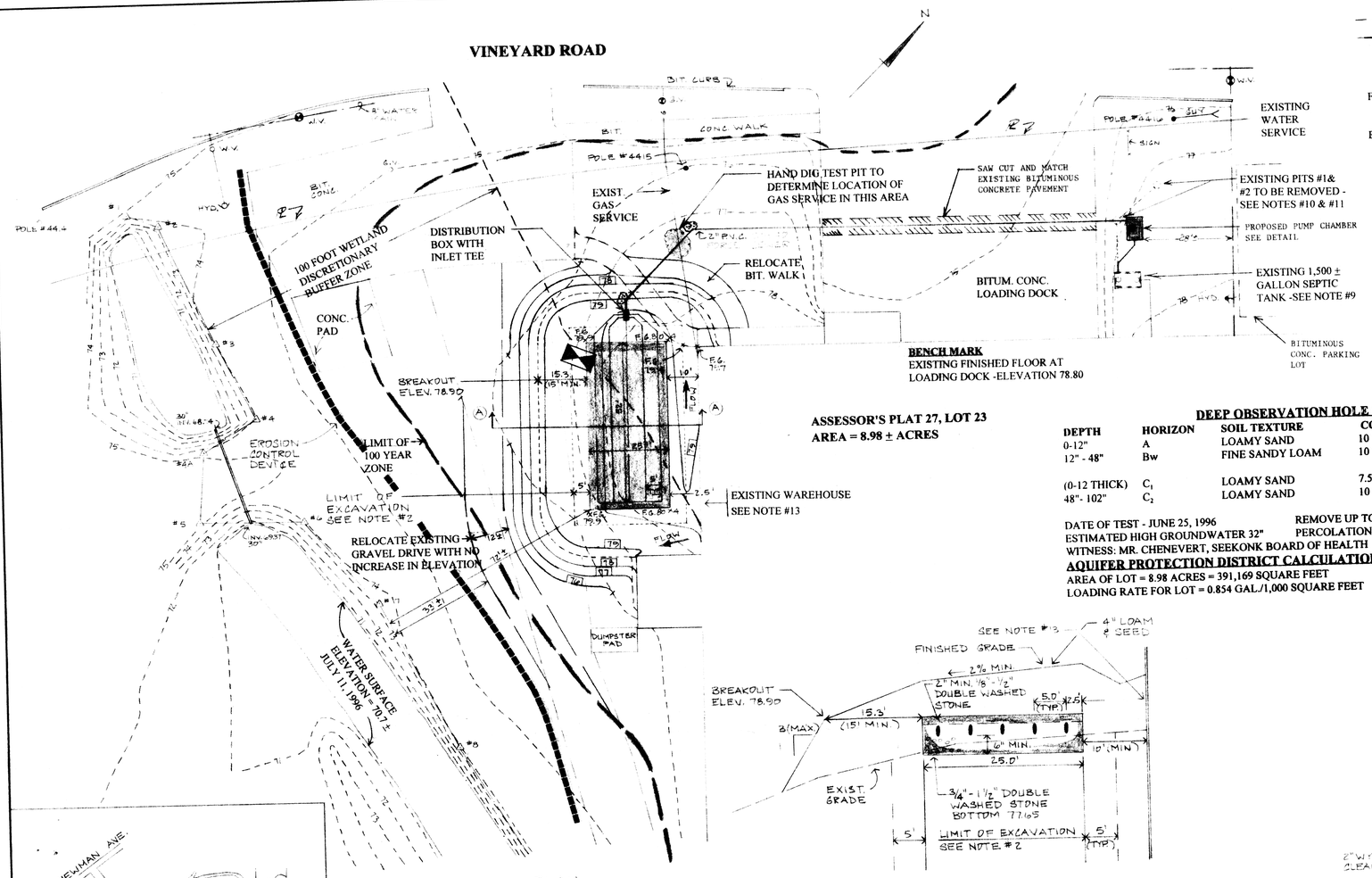
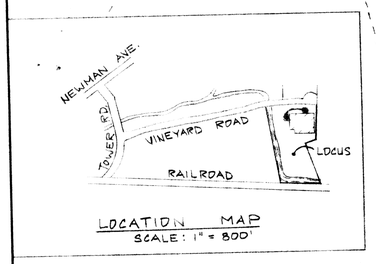
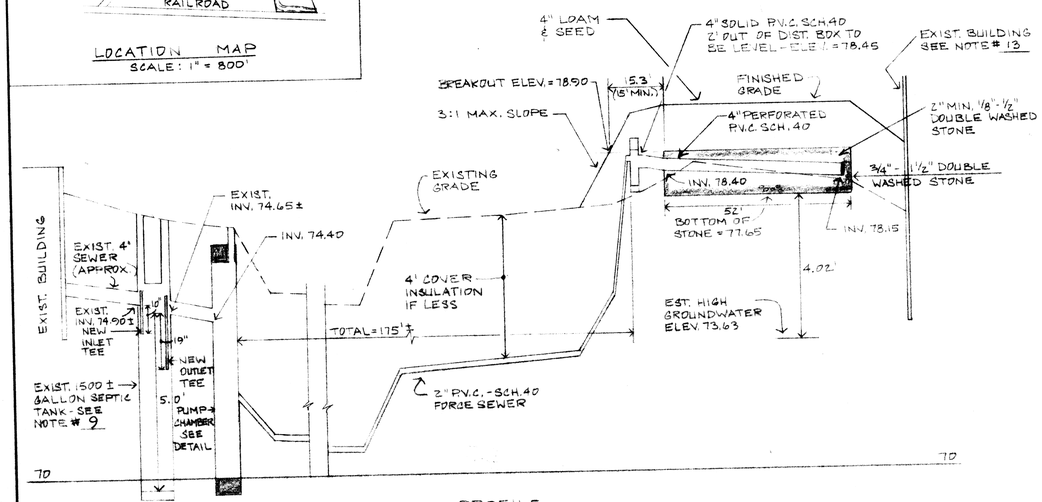


PLAN
SCALE: 1" = 20'

SECTION "A - A"
SCALE: HOR. 1" = 2'
VERT. 1" = 2'



LOCATION MAP
SCALE: 1" = 800'



PROFILE
SCALE: HOR. 1" = 20'
VERT. 1" = 2'

NOTE: EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION, BE MAINTAINED DURING CONSTRUCTION AND ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE REVEGETATED.

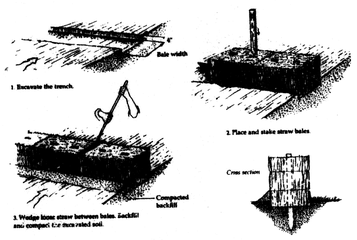


Figure 8-3 Placement and Construction of a Straw Bale Barrier
Adapted from U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

EROSION CONTROL DEVICE DETAIL

LEGEND

100	EXISTING CONTOUR
100	PROPOSED CONTOUR
INV.	INVERT OF PIPE
P. V. C.	POLYVINYL CHLORIDE PIPE
TYP.	TYPICAL
MIN.	MINIMUM
F. G. 100.00	FINISHED SPOT GRADE
100.00	EXISTING SPOT GRADE
	WETLAND FLAG
BIT. CONC.	BITUMINOUS CONCRETE
CONC.	PORTLAND CEMENT CONCRETE
HYD.	HYDRANT
W. V.	WATER VALVE
G. V.	GAS VALVE
	THRUST BLOCK
	TEST PIT
	EROSION CONTROL DEVICE

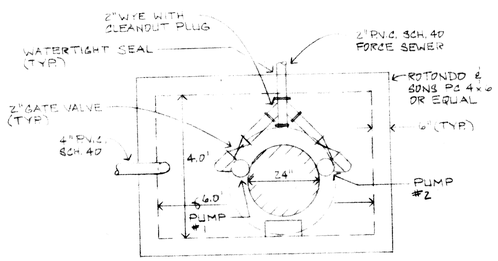
I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP (VALVE) TO LOT 23 AND IT IS SHOWN CORRECTLY. THE WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT

DEEP OBSERVATION HOLE #1 LOG (ORIGINAL GROUND - 76.31)

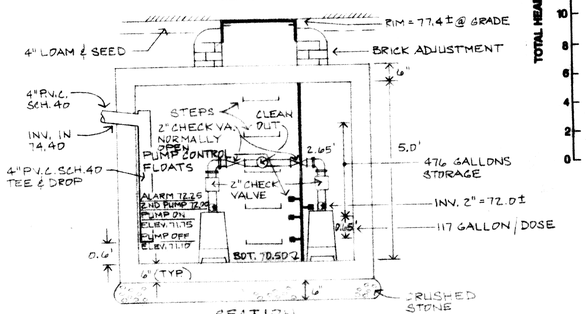
DEPTH	HORIZON	SOIL TEXTURE	COLOR	SOIL MOTTLING	OTHER
0-12"	A	LOAMY SAND	10 YR 3/2		LOOSE, GRANULAR
12" - 48"	Bw	FINE SANDY LOAM	10 YR 5/2	@32" COARSE, MANY 10YR 5/6	FRIABLE, MASSIVE
(0-12 THICK) 48"- 102"	C_1	LOAMY SAND	7.5 YR 4/6		LOOSE, SINGLE GRAIN
	C_2	LOAMY SAND	10 YR 4/1		LOOSE, SINGLE GRAIN

DATE OF TEST - JUNE 25, 1996 — REMOVE UP TO C_2 HORIZON — OBSERVED GROUNDWATER - 48"
ESTIMATED HIGH GROUNDWATER 32" — PERCOLATION TEST - AT 43" - 18 MINUTES PER INCH
WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH — TESTING PERFORMED BY: CAPUTO AND WICK LTD.

AQUIFER PROTECTION DISTRICT CALCULATIONS
AREA OF LOT = 8.98 ACRES = 391,169 SQUARE FEET — DAILY SEWAGE FLOW = 458 GALLONS PER DAY
LOADING RATE FOR LOT = 0.854 GAL./1,000 SQUARE FEET — MAXIMUM ALLOWED = 6 GAL./1,000 SQUARE FEET



PLAN VIEW



SECTION
PUMP CHAMBER DETAIL
SCALE: 1" = 2'

NOTES:

1.) ALL WORK SHALL CONFORM TO THE 310 CMR 15.00 STATE ENVIRONMENTAL CODE TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH.
2.) STRIP ALL TOPSOIL , SUBSOIL, FILL AND UNSUITABLE MATERIAL(A & B HORIZONS), TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET BEYOND IN ALL DIRECTIONS WHERE POSSIBLE. REPLACE WITH GRAVEL MEETING LATEST SPECIFICATIONS OF 310 CMR 15.255(3).
3.) THE CONTRACTOR SHALL LOCATE BY TEST HOLE, HAND DUG IF NECESSARY, ALL EXISTING UTILITIES AND PIPING PRIOR TO CONSTRUCTION. THIS INFORMATION SHALL BE USED IN ORDER TO DETERMINE WHICH UTILITIES REQUIRE RELOCATION. ANY PORTIONS OF EXISTING SYSTEMS TO BE ABANDONED AND LEFT IN PLACE MUST BE APPROVED AND AS DIRECTED BY THE ENGINEER AND THE BOARD OF HEALTH.
4.) ALL PIPE TO BE 4" P. V. C. SCHEDULE. 40 UNLESS OTHERWISE NOTED.
5.) PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER PUMP CHAMBER AND DISTRIBUTION BOX.
6.) IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. BEFORE PROCEEDING WITH CONSTRUCTION.
7.) GARBAGE GRINDER IS **NOT** ALLOWED WITH THIS DESIGN.
8.) IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
9.) SEPTIC TANK IS TO BE PUMPED OUT, RINSED WITH CLEAN WATER AND PUMPED OUT AGAIN. PUMPING MUST BE PERFORMED BY A STATE LICENSED SEPTIC HAULER AND DISPOSED OF PROPERLY. TANK IS THEN TO BE INSPECTED TO INSURE IT IS STILL SOUND. INLET AND OUTLET TEES ARE TO BE INSTALLED AS SPECIFIED IN TITLE 5. IF TANK IS NOT ACCEPTABLE, IT IS TO BE REPLACED WITH A NEW 1,500 GALLON TANK AT THE SAME ELEVATION.
10.) EXISTING PIT #1 IS TO BE PUMPED OUT, RINSED WITH CLEAN WATER AND PUMPED OUT AGAIN. PUMPING MUST BE PERFORMED BY A STATE LICENSED SEPTIC HAULER AND DISPOSED OF PROPERLY. THE PIT IS THEN TO REMOVE AND DISPOSED OF IN A LEGAL MANNER AS APPROVED BY THE SEEKONK BOARD OF HEALTH
11.) EXISTING PIT #2 IS TO BE PUMPED OUT, RINSED WITH CLEAN WATER AND PUMPED OUT AGAIN. PUMPING MUST BE PERFORMED BY A STATE LICENSED SEPTIC HAULER AND DISPOSED OF PROPERLY. THE PIT IS THEN TO BE FILLED WITH CLEAN FILL AND THE TOP TWO PEET ARE TO BE REMOVED.
12.) PARKING LOT AREA TO BE RESTORED, INCLUDING PAVEMENT AND BASE, AFTER CONSTRUCTION AND ACCEPTANCE OF THE SEWAGE DISPOSAL SYSTEM. PAVEMENT AND BASE MATCH EXISTING.
13.) PORTION OF THE EXISTING BUILDING REQUIRING HIGHER FINISHED GRADE ELEVATIONS THAN EXISTING ARE TO BE COATED WITH BITUMINOUS WATERPROOFING ON THE EXTERIOR BELOW FINISHED GRADE. THE FINISHED GRADES ARE TO SLOPE AWAY FROM THE BUILDING.

DESIGN DATA

DAILY SEWAGE FLOW
EXISTING OFFICE AREA = 3,000 SQUARE FEET
EXISTING WAREHOUSE WORKERS = 12
PROPOSED ADDITIONAL OFFICE AREA = 700 SQUARE FEET
DAILY FLOW = 3,700 S. F. x 75 GPD/100 S. F. + 12 x 15 GPD/PERSON = 458 GAL. PER DAY
SEEKONK REQUIRED (18 MPI PERC.) 458 x 150% = 687 GALLONS PER DAY

LEACHING AREA REQUIREMENTS
PERCOLATION RATE 18 MINUTES PER INCH
SOIL TEXTURE - CLASS I - EFFLUENT LOADING RATE = 0.53 GALLON/ SQUARE FEET
SIDEWALL AREA (LEACHING FIELD) = 0 SQUARE FEET
BOTTOM AREA = 52 FT x 25 FT. = 1,300 SQUARE FEET
TOTAL LEACHING CAPACITY = 1,300 S. F. X 0.53 GAL/DAY/S. F. = 689 GAL./DAY

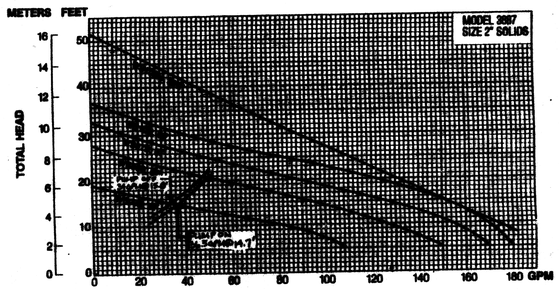
PUMP SPECIFICATIONS

PUMPS REQUIRED	TWO GOULDS SUBMERSIBLE SEWAGE PUMPS - MODEL 3887 SERIES WS0312B - 230 VOLTS (IF AVAILABLE) OR 115 VOLTS 1 PHASE - 4.9 AMPS (MAX.) - 1/3 HORSEPOWER
CONTROL PANEL	GOULDS MODEL A6-1012
ALARM PANELS	GOULDS MODEL A4-1
CONTROL SWITCHES	FOUR GOULDS MERCURY FLOAT SWITCH - MODEL A2-3
CHECK VALVE	TWO GOULDS MODEL A9-2P

ALL COMPONENTS OF PUMP SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS MAY BE USED ONLY WITH WRITTEN APPROVAL OF THE ENGINEER AND THE APPROVING AUTHORITY. INSTALLATION MUST BE IN ACCORDANCE WITH APPROPRIATE CODES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AL NECESSARY PERMITS.

Performance Curve

Submersible Sewage Pumps



COMMONWEALTH OF MASSACHUSETTS — ERIC VENG — REG. ENGINEER — PROFESSIONAL ENGINEER

SEWAGE DISPOSAL SYSTEM
ERIC VENG U.S.A., INC.
VINEYARD AVENUE
SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.
1150 PAWTUCKET AVE
RUMFORD, R.I. 02916
401-434-8880

DATE: JULY 1996
SHEET: 1 OF 1

EXHIBIT "A"