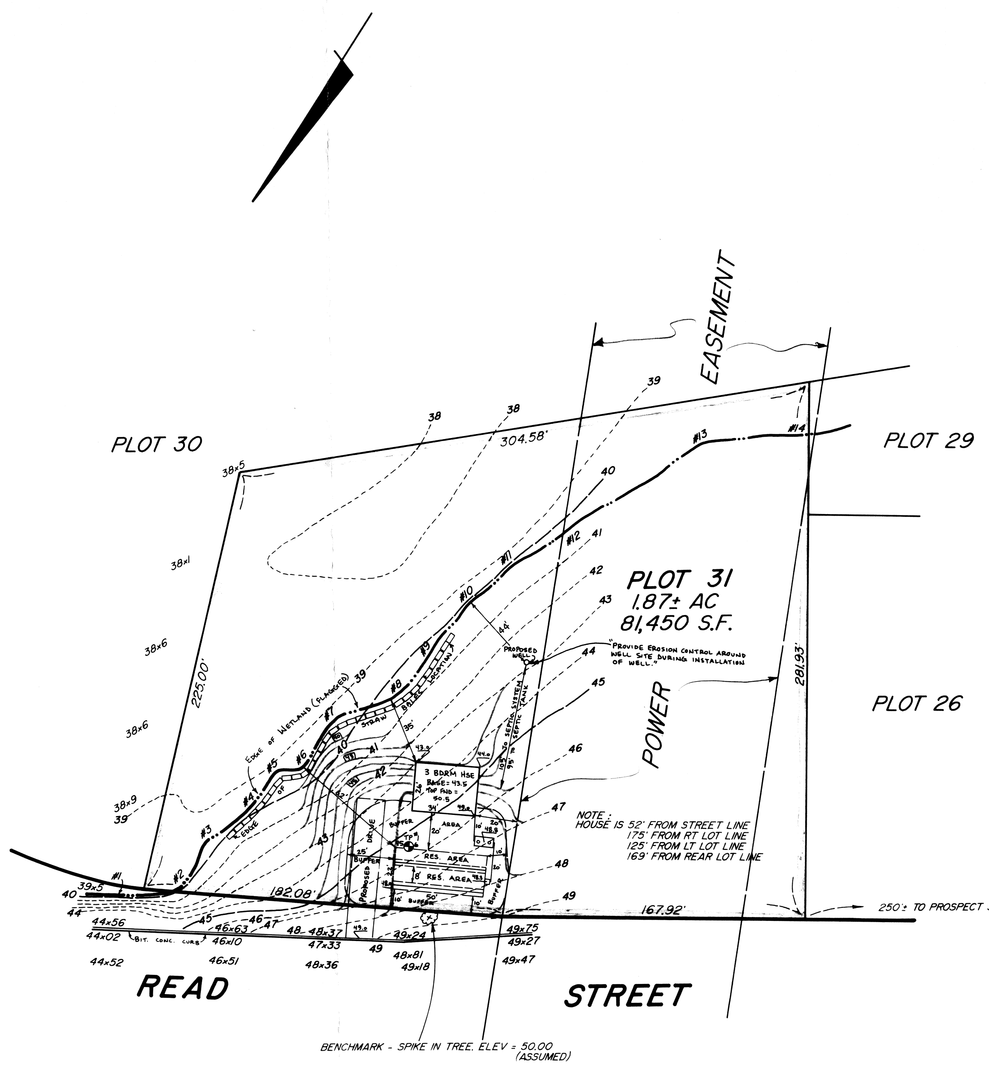


SCALE : 1" = 40'

SEPTIC TANK ANALYSIS

3 BEDROOMS AT 165 GPD/BR= 495 GALS/DAY
WITH NO GARBAGE DISPOSAL :
GPD x 1.5= 743 GALS.(STATE REQUIRES MINIMUM OF 1000 GALS)
WITH GARBAGE DISPOSAL :
GPD x 2.0= ___ GALS.(STATE REQUIRES MINIMUM OF 1500 GALS.)
USE : 1250 GALLON SEPTIC TANK (MINIMUM REQ. BY TOWN)

LEACHING AREA DESIGN ANALYSIS

DAILY FLOW :
3 BEDROOMS AT 110 GPD/BR= 330 GPD
+ 50% FOR TOWN MINIMUM = 165 GPD
495 GPD TOTAL EFFLUENT
CAPACITY :
DESIGN PERC. RATE 8 MIN./INCH
BOTTOM AREA=400S.F.x 0.63 = 252 GPD
SIDEWALL AREA=200S.F.x 1.25 = 250 GPD
TOTAL LEACHING AREA= 600 S.F. W/CAPACITY OF 502 GPD

ZONING SETBACKS

FRONT SETBACK	50'
SIDE SETBACK	35'
REAR SETBACK	80'

BOARD OF HEALTH SETBACKS

	TANK	SYSTEM
FROM HOUSE	10'	20'
FROM SIDE LINE	10'	10'
FROM STREET LINE	10'	10'
FROM WELL	50'	100'
FROM WETLAND	50'	50'
FROM DRAINS	25'	25'

REMARKS

LOT HAS NOT BEEN STAKED
TYPE OF HOUSE - 3 BEDROOM DWELLING
ASSESSORS PLAN/PLOT - 23/31
ZONING CLASSIFICATION - R - 4

LEGEND

EXISTING CONTOUR ------54------
PROPOSED CONTOUR ——50——
EXISTING ELEVATION 56x56
PROPOSED ELEVATION ~55.56
TEST PIT LOCATION ⊗
- - - - - EDGE OF STRAW BALES LOCATION
—·—·— EDGE OF WETLAND (FLAGGED)

NOTE : WATER TABLES FROM PERC TEST REPORT BY GORDON WOLFE.

WATER @ 68" - 11/20/79
WATER @ 66" - 5/29/80
WATER @ 54" - 4/8/83

NOTE : WE RECOMMEND THAT CRUSHED STONE BE PLACED UNDER THE CELLAR FLOOR AND THAT A DRAIN FROM THE REAR OF THE HOUSE BE INSTALLED TO DISCHARGE WATER THAT MIGHT COLLECT UNDER THE FLOOR.

TOPOGRAPHIC INFORMATION TAKEN FROM A "PLAN OF LAND IN SEEKONK, MASS, FOR BLAISE V. DEMELOS" BY STANLEY ENGINEERING, INC. SCALE : 1" = 40' DATED OCT. 1984, REVISED JAN. 1985.

THIS DESIGN WAS BASED ON THE ABOVE REFERENCED PERC TESTS. WE RECOMMEND THAT, WHEN THE DEVELOPER BEGINS WORK AT THE SITE, WE BE CONTACTED TO VERIFY THE CONDITIONS REPORTED BY GORDON W. WOLFE.

SOIL EXAMINATION REPORT

EXAMINATION DONE BY - GORDON W. WOLFE ON - 11/20/79 AND WITNESSED BY - BOARD OF HEALTH AGENT

TEST PIT NO.	TEST PIT NO.	TEST PIT NO.	TEST PIT NO.	TEST PIT NO.
GROUND ELEVATION = 45.6	GROUND ELEVATION =	GROUND ELEVATION =	GROUND ELEVATION =	GROUND ELEVATION =
0" TOPSOIL				
11" SUBSOIL				
34"				
54" FINE SAND				
77" BOTTOM				
SEE NOTE ON SITE PLAN REGARDING WATER TABLE				
PERC TEST TAKEN AT 4.5 FEET RATE= 8 MIN./INCH WATER FOUND AT 4.2 FEET	PERC TEST TAKEN AT ___ FEET RATE= ___ MIN./INCH WATER FOUND AT ___ FEET	PERC TEST TAKEN AT ___ FEET RATE= ___ MIN./INCH WATER FOUND AT ___ FEET	PERC TEST TAKEN AT ___ FEET RATE= ___ MIN./INCH WATER FOUND AT ___ FEET	PERC TEST TAKEN AT ___ FEET RATE= ___ MIN./INCH WATER FOUND AT ___ FEET

NOTE (A):
THE SANITARY DISPOSAL FACILITY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE V OF THE STATE ENVIRONMENTAL CODE AND THOSE PARTICULAR REQUIREMENTS OF THE LOCAL BOARD OF HEALTH. NO VARIATIONS FROM THIS DESIGN SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THIS OFFICE. DUE TO SOIL CONDITIONS AND OTHER FACTORS, THE WATER TABLE ELEVATION AND ACCEPTABLE MATERIALS FOUND DURING THE PERC TEST CAN VARY AND MUST BE VERIFIED PRIOR TO THE TIME OF CONSTRUCTION.

NOTE (B):
CONFIRMATION OF CONSTRUCTION IN ACCORDANCE WITH THIS PLAN IS REQUIRED. THIS OFFICE SHALL BE NOTIFIED PRIOR TO ANY BACKFILLING OF THE SYSTEM FOR OUR INSPECTION.

NOTE (C):
THE LOCATION OF ALL UTILITIES AND SERVICES ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE PROVIDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION. A DIG-SAFE NUMBER MUST BE OBTAINED BY TELEPHONING 1-800-322-4844. UTILITIES NOT PARTICIPATING IN THE DIG-SAFE PROGRAM MUST BE CONTACTED DIRECTLY.

NOTE (D):
THE BOARD OF HEALTH SHALL BE CONSULTED FOR ITS POLICY ON MANHOLE FRAME & COVERS. IF IT DOES NOT HAVE A POLICY REGARDING THEM, THIS OFFICE RECOMMENDS THAT THE MANHOLE FRAME(S) & COVER(S) OF THE SEPTIC TANK BE BROUGHT TO FINISH GRADE. THIS RECOMMENDATION IS MADE TO ASSIST THE HOMEOWNER SHOULD IT BE NECESSARY TO DETERMINE THE LOCATION OF THE SYSTEM IN THE FUTURE.
IF THE BOARD OF HEALTH DOES NOT REQUIRE THEM TO BE BROUGHT TO FINISH GRADE & OUR RECOMMENDATION IS NOT TAKEN, THE MANHOLE FRAME & COVER SHALL NOT BE DEEPER THAN 12" FROM FINISH GRADE (REGULATION 15.08(12) OF TITLE V).

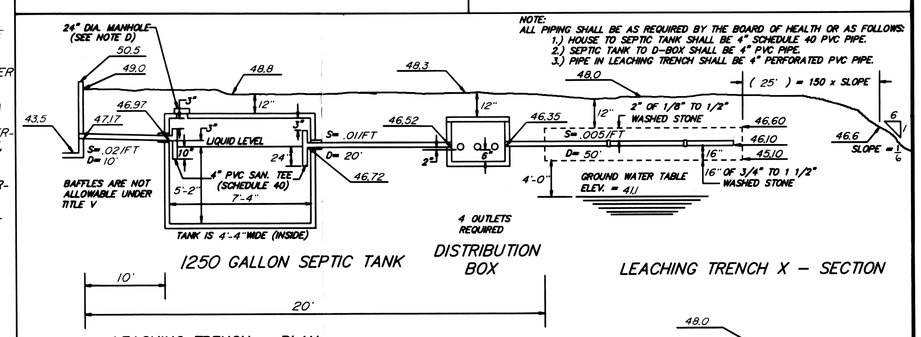
(NOTE E:)
WITHIN THE LIMITS OF EXCAVATION AND FILL, REMOVE ALL UNSUITABLE MATERIAL AND BACKFILL WITH SELECT GRAVEL WITH A PERCOLATION RATE OF NOT MORE THAN 1" = 2 MINUTES.

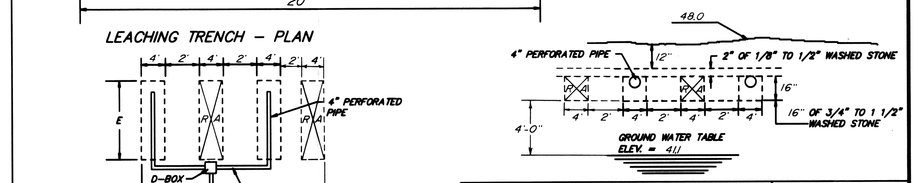
INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM SHALL BE INSPECTED BY JOHN W. DeLANO AND ASSOCIATES, INC. AND BY THE BOARD OF HEALTH.

INSPECTION # 1 SHALL BE MADE WHEN EXCAVATION IS COMPLETE AND BEFORE BACKFILLING BEGINS.
INSPECTION # 2 SHALL BE MADE WHEN BACKFILLING AND COMPACTING OF SELECT GRAVEL HAS BEEN COMPLETED.
INSPECTION # 3 SHALL BE MADE WHEN COMPLETE SYSTEM HAS BEEN INSTALLED, AND BEFORE COVERING OVER.

IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO NOTIFY JOHN W. DeLANO & ASSOCIATES, INC. AND THE BOARD OF HEALTH WHEN READY FOR THESE INSPECTIONS. FAILURE TO NOTIFY OR COMPLETE INSPECTIONS WILL RESULT IN NON CERTIFICATION OF SYSTEM.
ALL PIPING WITHIN 5' OF THE BUILDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MASSACHUSETTS PLUMBING CODE.

(NOTE F:)
THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL. THIS SYSTEM SHOULD BE CLEANED & INSPECTED ANNUALLY IN ACCORDANCE WITH TITLE V.





NO. OF REQUIRED LEACHING LINES = 2

REQUIRED DIMENSIONS OF SYSTEM 22' X 50' X 12'
D E DEEP

BUFFER AREA

EXCAVATE ALL UNSUITABLE SOIL TO A DEPTH OF APPROX. 3' FT. FROM THE EXISTING GROUND SURFACE AND FOR A DISTANCE OF 25/10' FT. IN ALL DIRECTIONS FROM THE LEACHING FACILITY. BACKFILL WITH CLEAN, COARSE, SAND & GRAVEL IN THE AREA EXCAVATED. (REGULATION 2.17 OF TITLE V) NOTE: SEE SITE PLAN FOR LOCATION OF THE 25' & THE 10' BUFFERS.

ELEVATION SCHEDULE	DESIGN ELEVATION
TOP OF FOUNDATION	50.5
FINISHED BASEMENT FLOOR	43.5
FINISHED GARAGE FLOOR	NOT APPLIC.
SEWER INVERT AT FOUNDATION	47.17
SEWER INVERT INTO SEPTIC TANK	46.97
SEWER INVERT OUT OF SEPTIC TANK	46.72
SEWER INVERT INTO DISTRIBUTION BOX	46.52
SEWER INVERT OUT OF DISTRIBUTION BOX	46.35
SEWER INVERT AT END OF LEACHING TRENCH	46.10
ELEVATION OF GROUND WATER TABLE	41.1

I CERTIFY THAT ALL INFORMATION SHOWN HEREON IS CORRECT

John W. DeLano — REGISTERED LAND SURVEYOR — 1-8-90 DATE

I CERTIFY THAT THE SEWAGE DISPOSAL FACILITY SHOWN HEREON HAS BEEN DESIGNED IN ACCORDANCE WITH REGULATIONS OF TITLE V OF THE STATE ENVIRONMENTAL CODE & THE LOCAL BOARD OF HEALTH REGULATIONS.

Howard Shurtz — PROFESSIONAL ENGINEER — Jan 8, 1990 DATE

R.P.L.S. — R.P.E.

DESIGNED BY: JWD
DRAWN BY: RWR
CHECKED BY: JWD
APPROVED BY: HS
DATE: 1-4-90
REVISIONS:

PREPARED FOR: B.V. DEMELOS — JN- 3111
ADDRESS : 82 OAKRIDGE DR. ' TAUNTON, MA

ON-SITE SANITARY DISPOSAL SYSTEM
(PROPOSED)
PLAT 23, PLOT 31 69-212
READ STREET - SEEKONK, MA

JOHN W. DELANO & ASSOCIATES, INC.
REGISTERED LAND SURVEYORS & ENGINEERS
27 JEFFERSON STREET TAUNTON, MA
220 HUDSON STREET HALIFAX, MA

SHEET : 1 OF 1
DATE : 1 - 4 - 90