

WILLIAM J. SIERUTA, P.E.
REGISTERED PROFESSIONAL ENGINEER
46 UPLAND ROAD
HOLYOKE, MASSACHUSETTS 01040
(413) 532-8525

May 16, 1989

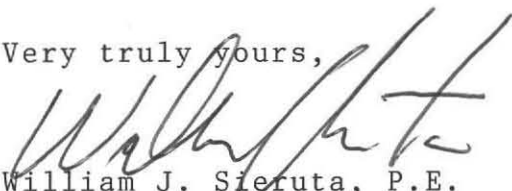
Amherst Board of Health
Boltwood Walk
Amherst, MA. 01002

The septic system at 87 Marker Hill Road, Cushman, MA. was inspected. the system was installed in accordance with 310 CMR 15 and local Board of Health regulations. The system is found to be satisfactory. The only deviation from the approved plans are as noted.

TRENCHES MOVED DOWN SCOPE
TRENCH 1 - INLET INV 188.40
TRENCH 2 - INLET INV 186.40

HOUSE FOUNDATION ELEVATION
OFF 2.0 FT FROM TBM.

Very truly yours,


William J. Sieruta, P.E.

ALL SYSTEM LEVELS
ADJUSTED -2.0

This does not present
problem at this
LOT.

JUL 5 1988

88-20

William J. Sieruta
46 Upland Road
Holyoke, MA. 01040

July 1, 1988

Amherst Board of Health
Town Hall
Boltwood Place
Amherst, MA. 01002

Enclosed is a copy of a perc test performed in the Town of
Amherst by William J. Sieruta, P.E. for Michael Stokes.

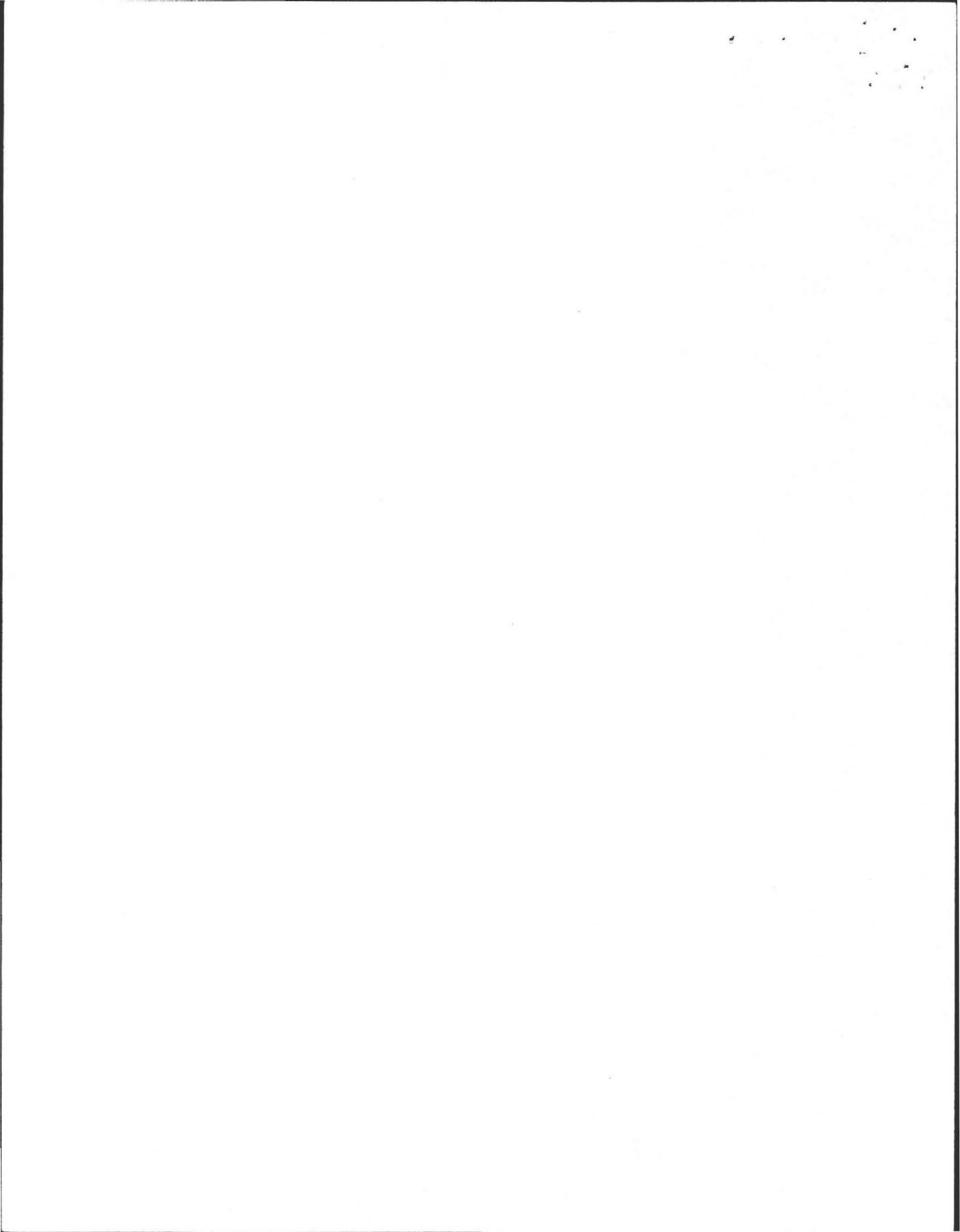
87 Market Hill Rd.

Very truly yours,

William J. Sieruta P.E.

William J. Sieruta, P.E.

WJS



Test No.	Reading	Time
	Saturation (15min)	25 gals
	10:52	11:05
	11:09	14"
	11:24	11"
		8"

15 2.5
6

Perc. Rate 4.0 Min/inch
 Ground Elev. 198 (200 set at TPT)
 Depth of Hole 42" + 18" - 60"
 bottom

DEEP TEST PIT/S

Test Pit - TPI-1

Depth	Soil Description
0-4"	OTS FOREST LOAM
4"-20"	GRAVEL WITH ROOTS
20"-50"	GRAVEL well graded
50"-76"	SANDY TILL
76"-130"	TILL WITH COBBLES

Groundwater Depth 108 Elev. _____
 Bedrock Depth DNA Elev. _____
 Ground Elevation 199

Test No.	Reading	Time
	Saturation (15min)	11:30 - 11:45
	11:45	17
	12:12	14
	12:47	11

27 = 9.0
3
35
3 11.66

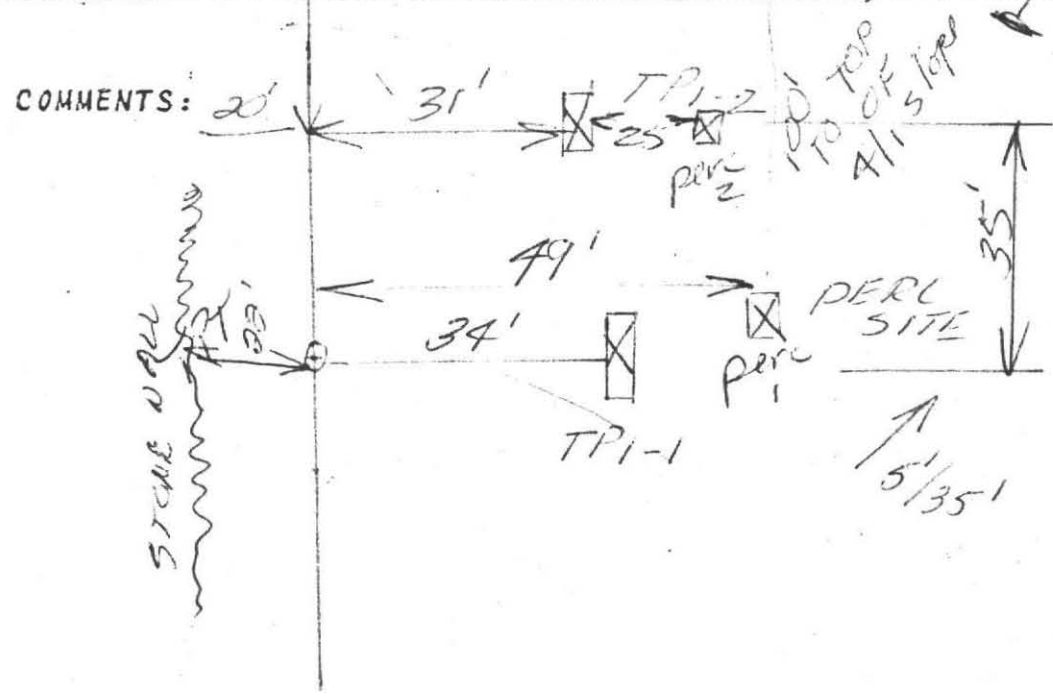
Perc. Rate 12.0 Min/inch
 Ground Elev. _____
 Depth of Hole 60"

Test Pit - TPI-2

Depth	Soil Description
0-4"	OTS FOREST LOAM
4"-21"	GRAVEL WITH ROOTS
21"-74"	SANDY TILL
74"-130"	TILL WITH COBBLES

Groundwater Depth 110 Elev. _____
 Bedrock Depth DNA Elev. _____
 Ground Elevation 195

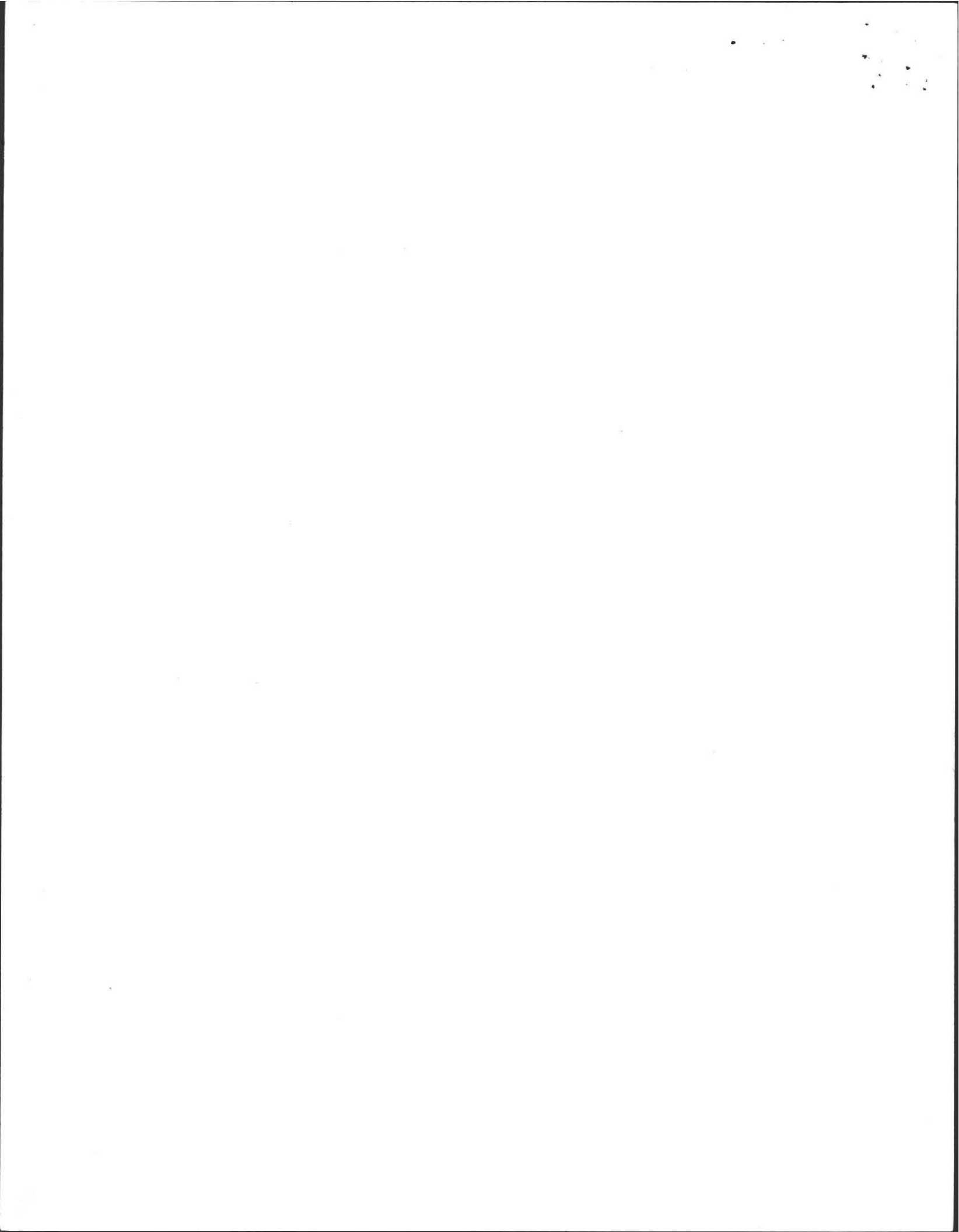
S.C.S. Soil Designation _____ Seasonal High Water Table? _____
 Bench Mark: Elev. _____ Description 200 set at pin



COMMENTS: 20'

OWNER
 M. STOKES
 87 MARKET
 HILL
 RD
 CUSHMAN
 MASS

ENGR
 WJ SIERUJA
 WITNESS
 D PINSKI
 Bd of Health
 Amherst
 Bd of Health



LOCATION OF PROP.: *Michael Stosz*
87 Market Hill Road
Amherst, MA

LOT NO.:

DATE PERFORMED: *March 8, 1988*

PERFORMED BY: *Wm. Sieruta P.E.*

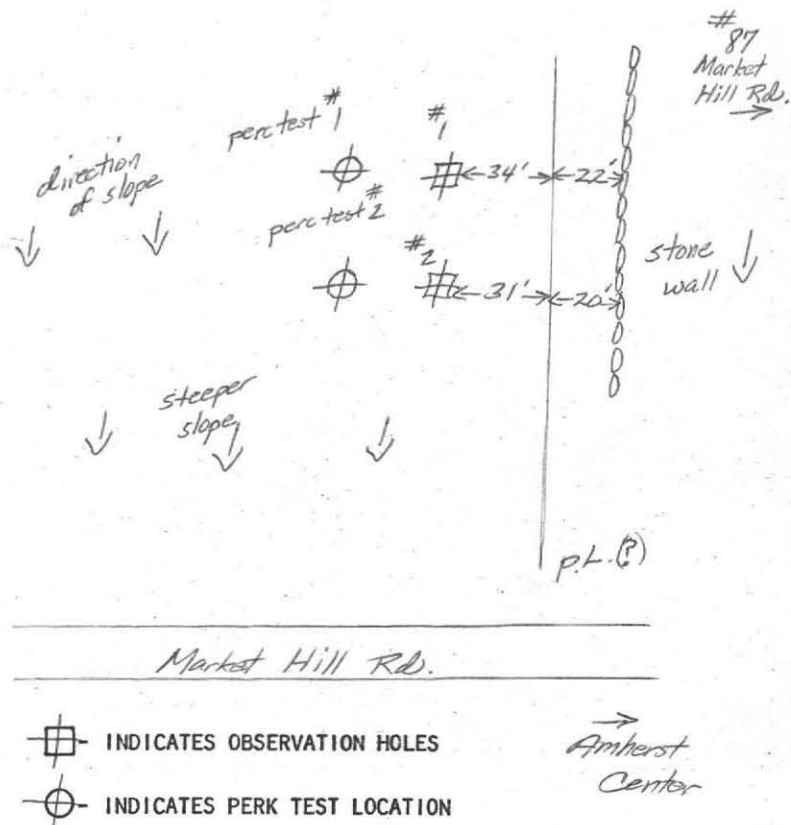
WITNESSED BY: *for Health Dept.: Dennis Kinski*

PERK TEST RESULTS: (tabulation on back)

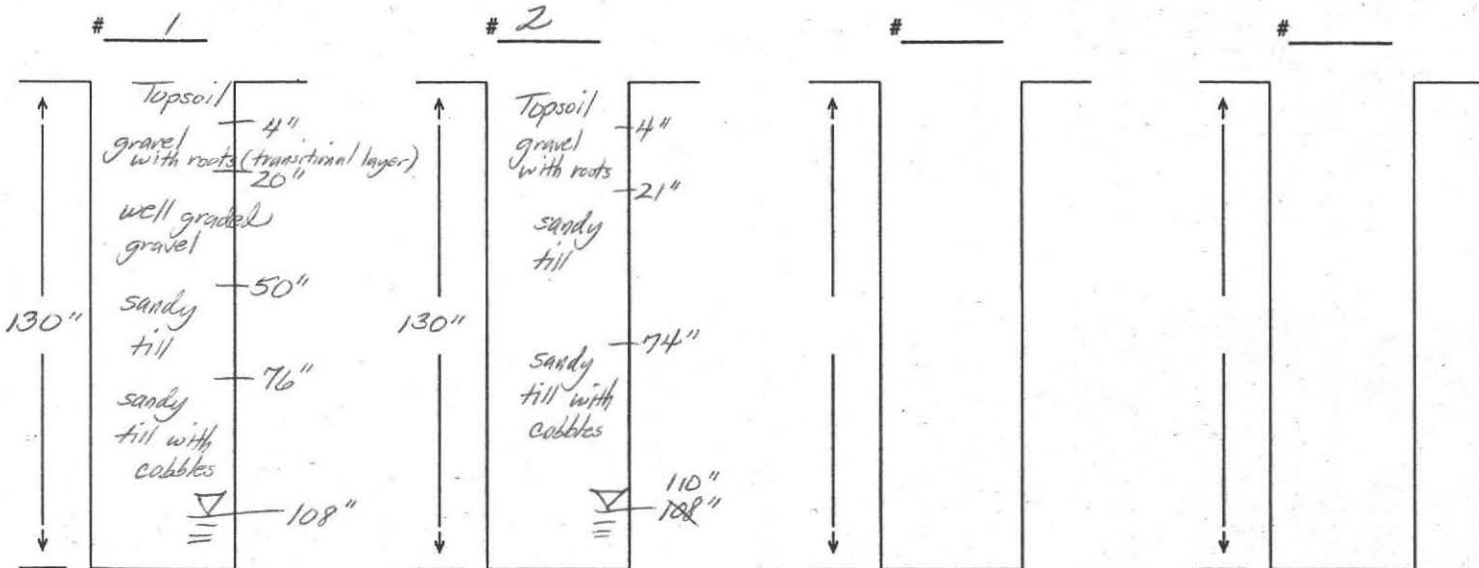
1. 4 min. finish	soak 10 ⁵³ to 11 ⁰⁸
	12" 11 ⁰⁹
	9" 11 ²⁴
	6" 11 ²⁴
2. 12 min. finish	soak 11 ³⁰ to 11 ⁴⁵
at 5' depth	12" 11 ⁴⁵
	9" 12 ¹²
	6" 12 ⁴⁷ > 35 minutes

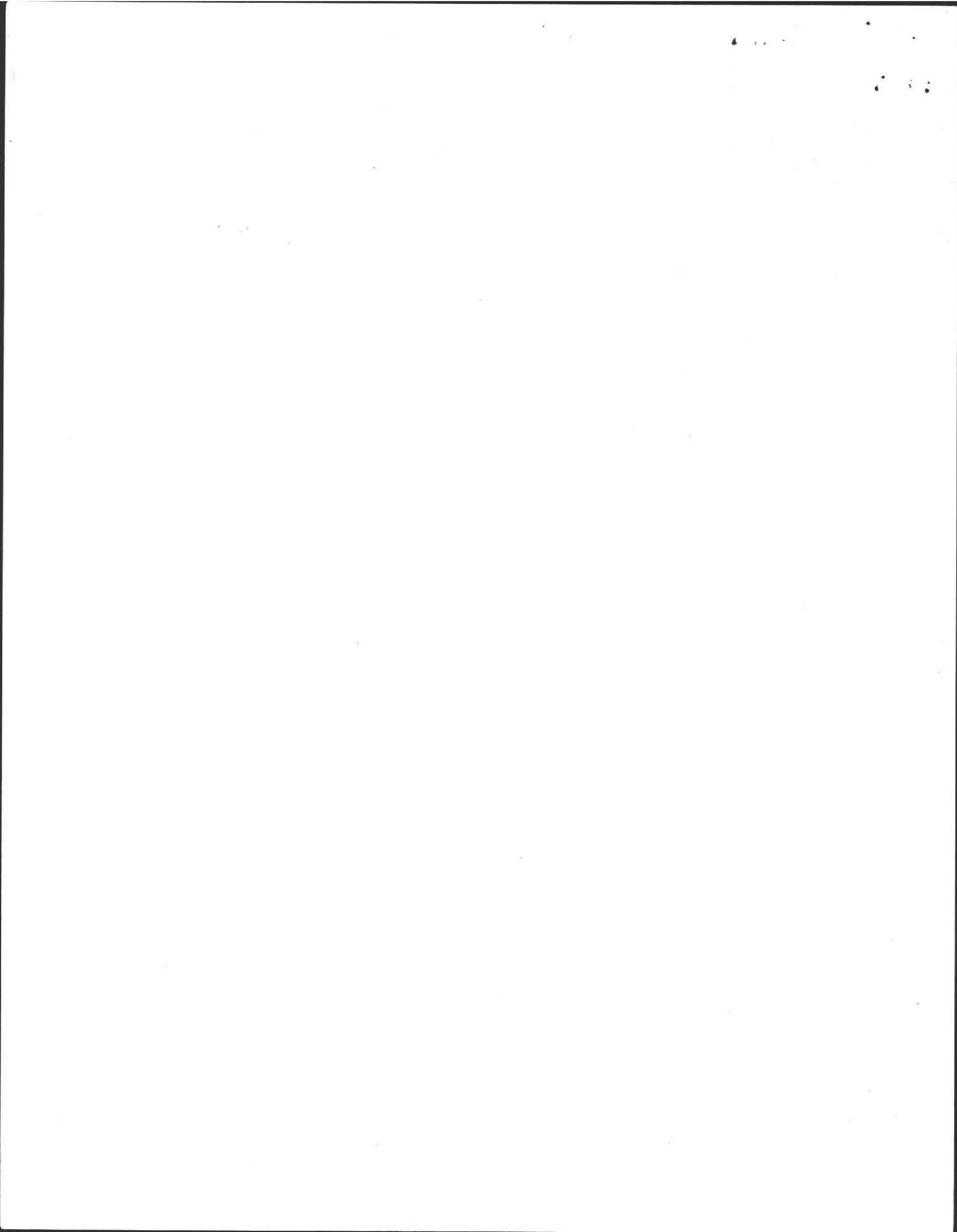
COMMENTS:
Hold for engineer's plan. Check plan for slope offset requirement (steep slope below system). Source of water

SKETCH PLAN
 No Scale
 ~ 4 ± acre site



≡ denotes groundwater
 OBSERVATION HOLES





PERCOLATION TEST INFORMATION

TP-1	TP-2
0.5" FINEST SAND	0.5" FINEST SAND
16" COARSE SAND WITH ROOTS	17" COARSE SAND WITH ROOTS
30" WELL GRADED SAND	33" SAND
20" SAND TILL	TILL WITH COBBLES
30" TILL WITH COBBLES	7'-130"

PERCOLATION TEST DATE 3-8-88
 ENGINEER WJS/EDW
 WITNESS D. PINSEK
 PERMITS STORES 87 MARKET HILL RD CUSHING MASS

PERC TEST I AT TP-1 LOCATION
 DEPTH 60"
 ACTUAL RATE 2.5 MIN TO
 DESIGN RATE 4.0 MIN

PERC TEST II AT TP-2 LOCATION
 DEPTH 60"
 ACTUAL RATE 11.6 MIN TO
 DESIGN RATE 12.0 MIN

SEPTIC SYSTEM DESIGN NOTES

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 810 CODE IS TITLE 5 AND AMHERST BOARD OF HEALTH REGULATIONS

FINISH PROFILE TO VARY FROM PRESENT CONTOURS REGARDING TO BE COMPLETED TO PROVIDE SATISFACTORY SLOPE OFFSET

DESIGN CRITERIA
 USE SINGLE EARLY RESIDENTIAL HOME AND DISPOSE 4 BEDROOMS SEPTIC TANK FULL BATH

DESIGN FLOW 310 GPM @ 15:00
 110 GPM @ 15:00 + 4 BEDROOMS = 440 GPM
 AMHERST REGULATIONS 1.25 X DESIGN FLOW
 SEPTIC TANK DESIGN 310 LTR @ 15:00
 440 GPM @ 15:00 + 1.25 X 310 = 585 GPM
 USE 1500 GAL TANK AT 15:00
 PUNCH CONC. WALL 12" X 15" X 15'6"

LEACHING SYSTEM DESIGN
 DUE TO DEPTH TO GROUND WATER TABLE AND THE TYPICAL LEACHING TRENCH DESIGNS OVER TP-1 WILL BE USED

EFFECTIVE WIDTH 2'-0"
 EFFECTIVE DEPTH 1'-4"
 EFFECTIVE LENGTH 50 FT USE 2 TRENCHES
 EFF. VOL. 40 FT LONG

SIDEWALL AREA 1.33' X 2' X 40' X 2 = 212.8 FT²
 BOTTOM AREA 2' X 40' X 2 = 160 FT²
 TOTAL LEACHING CAPACITY 212.8 FT² X 2.0 + 160 FT² X 1.83 = 558
 MEETS BOTH 310 GPM AND AMHERST BOARD OF HEALTH REGULATIONS

ASSUMED TBM TWIN 24" PINE TREES SET @ MARKET ELEVATION 200.00

