

No. 88-36

OCT 27 1988

#23

FEE 90.00

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

10/31/88

Application is hereby made for a Permit to Construct (X) or Repair () an Individual Sewage Disposal System at:

South Orchard Drive, Amherst Lot #4
Maria Fagundes Location - Address 214 Glendale Road, Amherst
Owner Address
Installer Address

Type of Building Dwelling - No. of Bedrooms 4 Expansion Attic () Garbage Grinder ()
Other - Type of Building No. of persons Showers () - Cafeteria ()
Other fixtures

Design Flow 55 gallons per person per day. Total daily flow 440 gallons.
Septic Tank - Liquid capacity 1500 gallons Length Width Diameter Depth
Disposal Tank - No. Width 18' Total Length 56' Total leaching area 1000 sq. ft.
Seepage Pit No. Diameter Depth below inlet Total leaching area sq. ft.

Percolation Test Results Performed by A.B.Jr.-Huntley Associates Date 3/5/88
Test Pit No. 1 4 minutes per inch Depth of Test Pit 10' Depth to ground water 8'
Test Pit No. 2 2 minutes per inch Depth of Test Pit 10' Depth to ground water none

Description of Soil See attached plan

Nature of Repairs or Alterations - Answer when applicable

Agreement: The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Application Approved By [Signature] for Amherst Health Dept. Date 10/31/88

Application Disapproved for the following reasons:

Permit No. 88-36 Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst

Certificate of Compliance

THIS IS TO CERTIFY That the Individual Sewage Disposal System constructed (X) or Repaired () by [Signature] at [Address] has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. 88-36 dated [Date]

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY. DATE 10/25/88 Inspector [Signature]

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst

No. 88-36

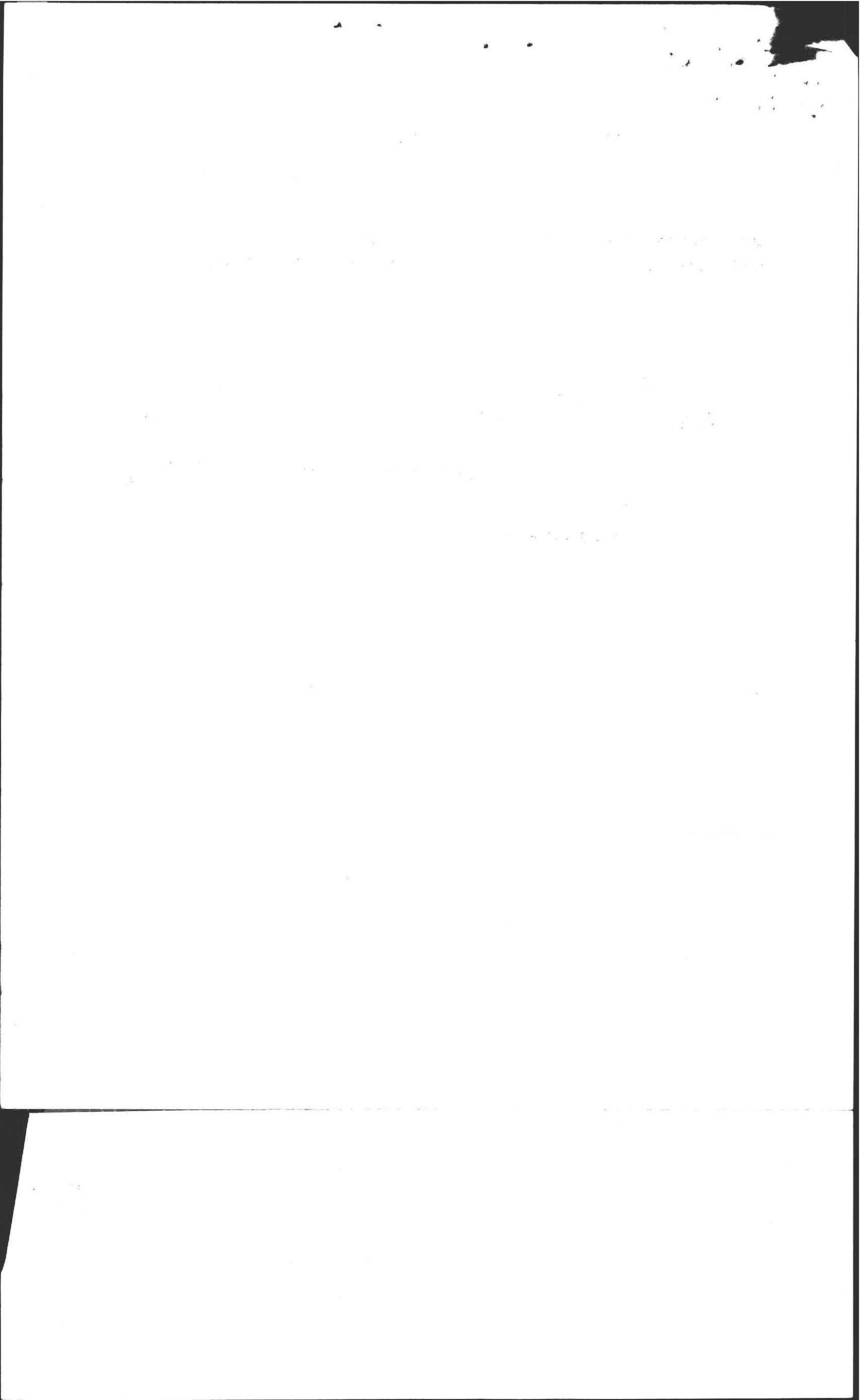
FEE 90.00 pd.

Disposal Works Construction Permit

Permission is hereby granted to Construct (X) or Repair () an Individual Sewage Disposal System at No. [Address] as shown on the application for Disposal Works Construction Permit No. 88-36 Dated [Date] for Amherst Health Dept. [Signature]

DATE 10/31/88

CHECK OR FILL IN WHERE APPLICABLE



4/26/89

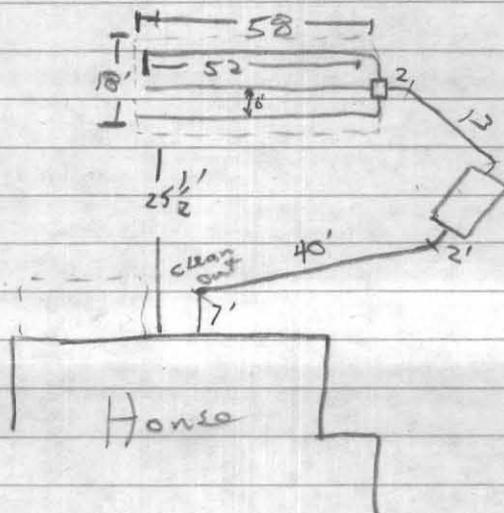
Inspection South Orchard Street
Amherst, MA

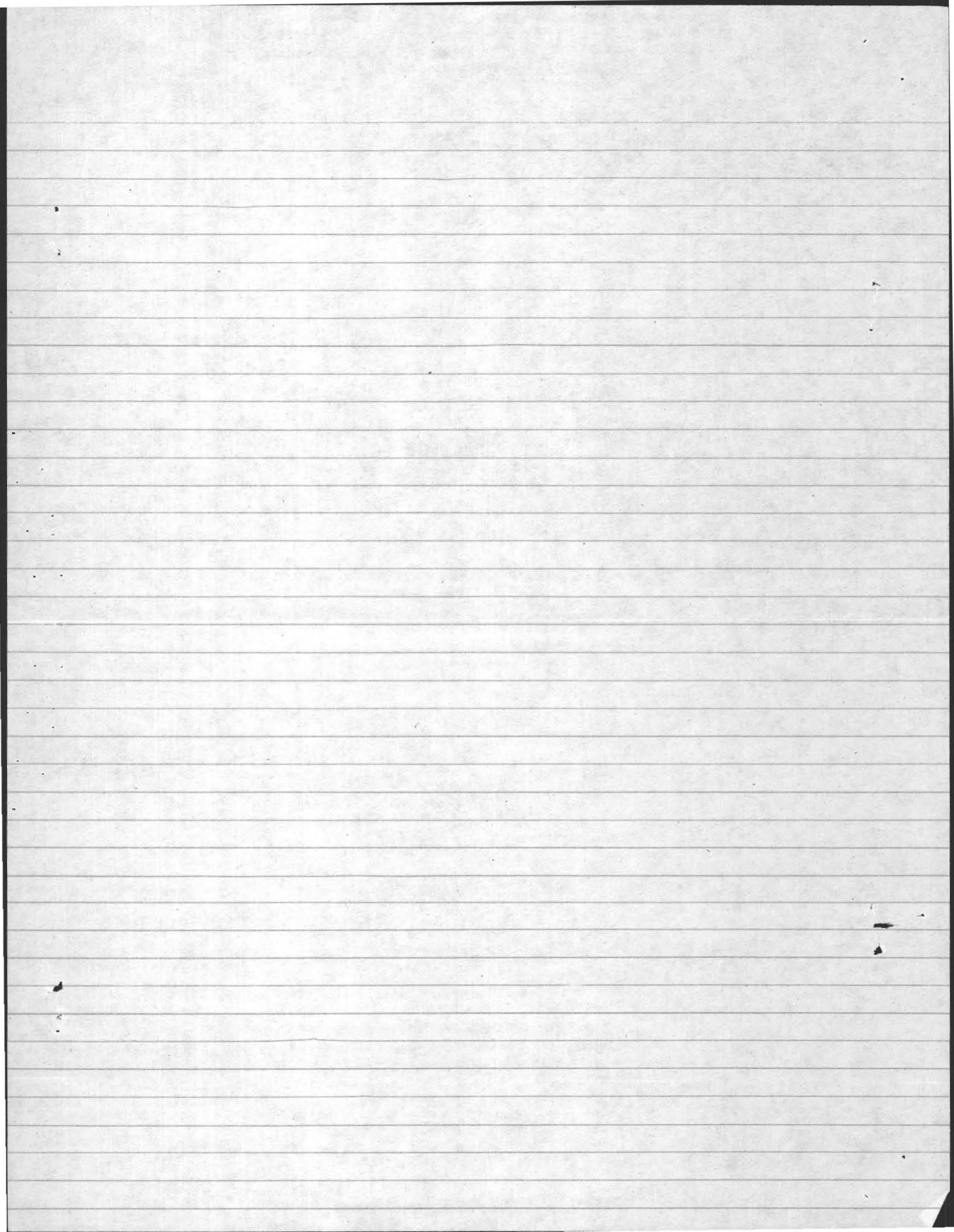
Tyler

Zarozinski

Installer Mark's
Orchard St

Huntley





JUL 10 1989

ALMER HUNTLEY, JR. & ASSOCIATES, INC.

SURVEYORS - ENGINEERS - LANDSCAPE ARCHITECTS
P.O. Box 568 / 30 INDUSTRIAL DRIVE EAST / NORTHAMPTON, MASS. 01061
(413) 584-7444

ALMER HUNTLEY, JR., PE., RLS

DOUGLAS W. THOMPSON, RLS
WILLIAM R. GARRITY, LA
JOHN G. RAYMOND, PE

July 7, 1989

Dave Zaronzinski
Bangs Community Center
Boltwood Walk
Amherst, MA 01002

Re: Fagundes Property
South Orchard Drive, Amherst

Dear Mr. Zaronzinski:

This letter is to REPORT that the subsurface sewage disposal system at the aforementioned property has been installed and was inspected during construction by a representative of this office. The following are the results of those inspections:

- The system was installed as designed.
- The system was not installed as designed. Minor changes were necessary during construction and were approved by this office and meet Title V of the State Sanitary Code Requirements.
- The system was installed improperly and the Contractor must correct the installation before final approval of the system can be granted.

Inspection of the installation by this office does not guarantee the operation or longevity of the system.

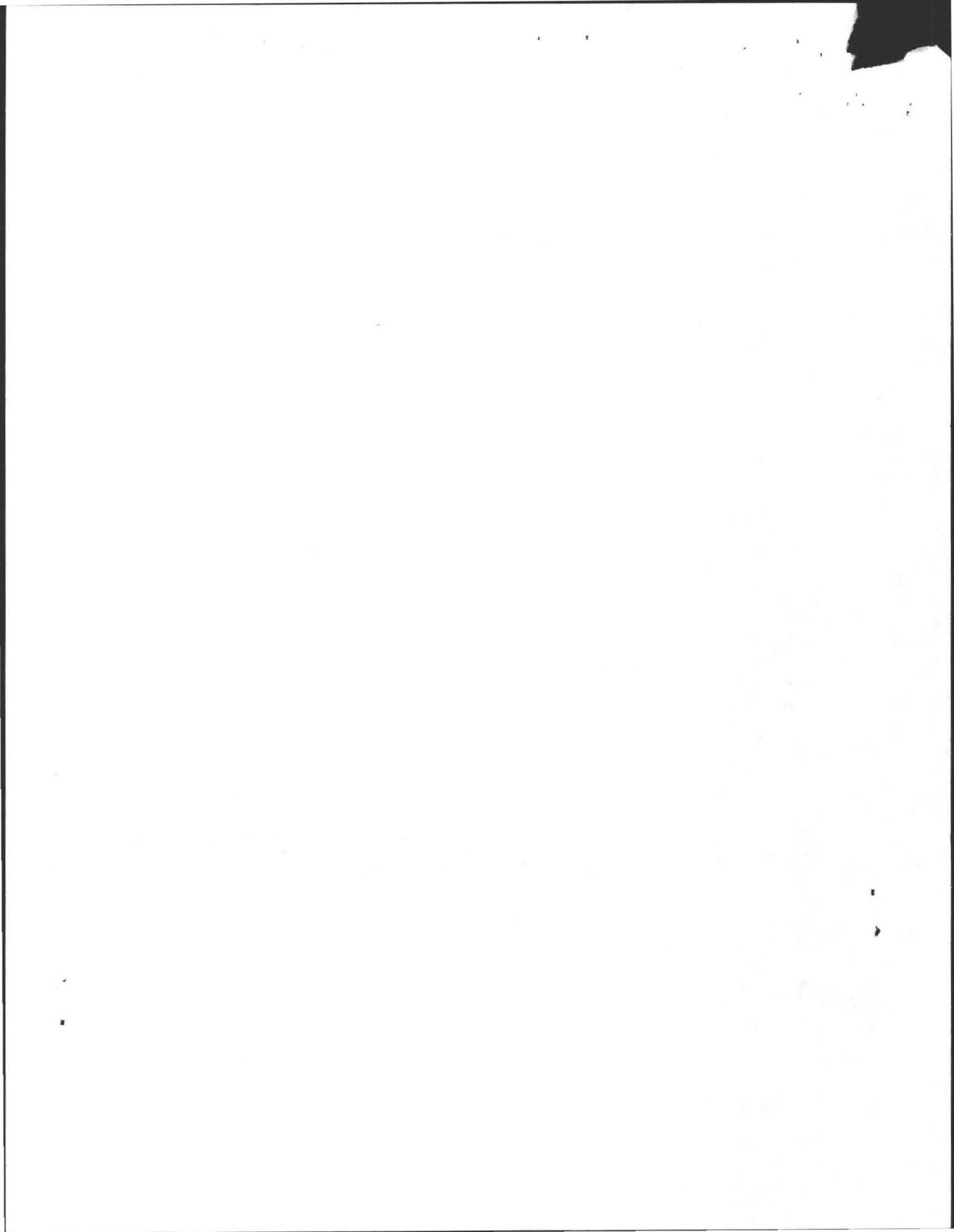
If you have any questions, please contact us.

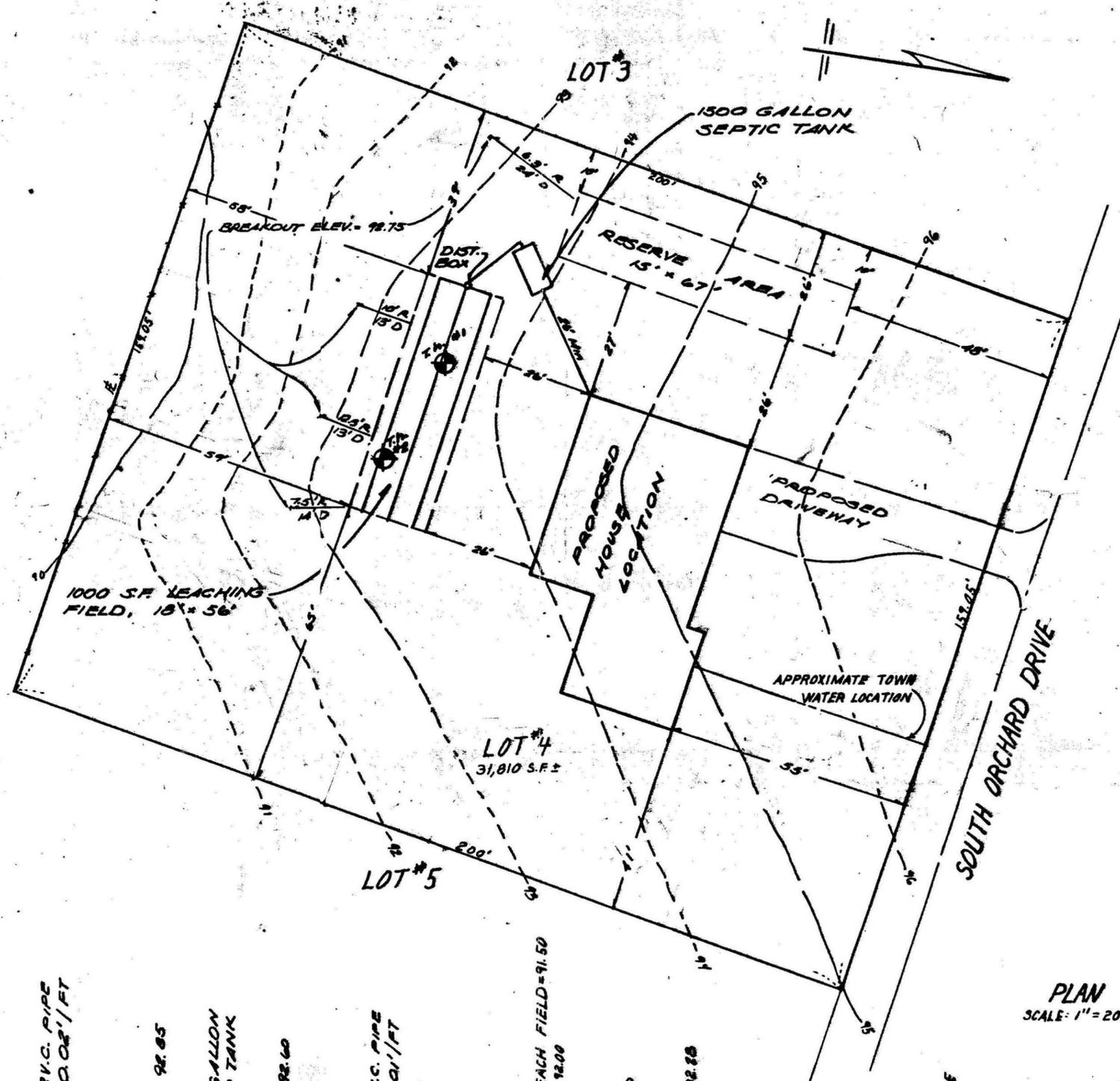
Thank you for your attention in this matter.

Very truly yours,

ALMER HUNTLEY, JR. & ASSOCIATES, INC.


Anthony Beninati, Jr.





T.B.M. AT
HYD SPINDLE
= 100.00

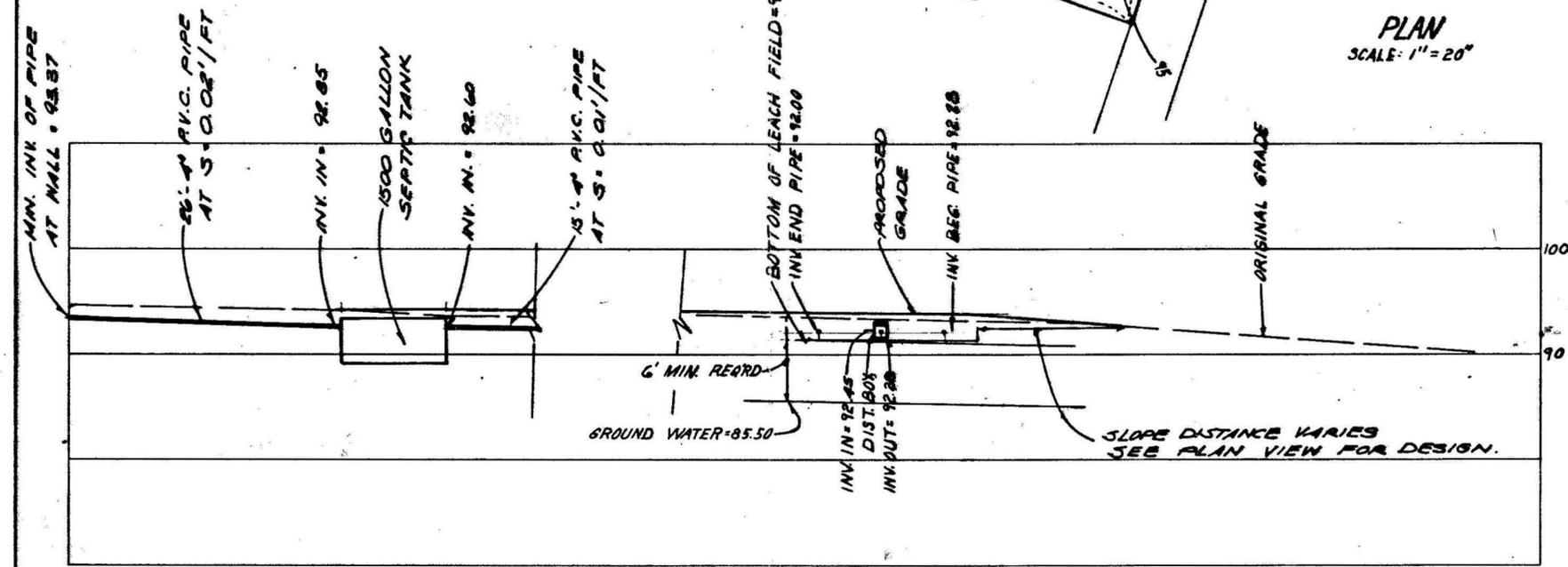
PLAN
SCALE: 1" = 20'

| OBSERVATION PIT: #1 | | OBSERVATION PIT: #2 | |
|---------------------|---------------------------|---------------------|---------------------------|
| DATE: 3-5-88 | | DATE: 3-5-88 | |
| 73.50 | OTS 9" | | OTS 6" |
| | FINE SAND 5'-9" | | FINE SAND 4'-0" |
| 10'-0" | FINE SAND W/ GRAVEL 2'-6" | 10'-0" | FINE SAND W/ GRAVEL 3'-6" |
| | CLAY 1'-0" | | CLAY 2'-0" |

GROUNDWATER = 8.0' GROUNDWATER = NONE
 OXIDE: = NONE OXIDE: = NONE
 PERC. RATE = 4 MIN/IN @ 6'-6" PERC. RATE = 2 MIN/IN @ 4'-6"

BOARD OF HEALTH WITNESS: DENIS PINSKI

- NOTES:
- ALL WORK TO BE DONE IN ACCORDANCE WITH TITLE 5, STATE ENVIRONMENTAL CODE.
 - SEPTIC TANK SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY PER TITLE 5, SEC. 6.16
 - ALL PIPING FROM HOUSE TO SEPTIC TANK AND FROM SEPTIC TANK TO DISTRIBUTION BOX OR LEACHING PIT TO BE SDR-35, RING-TITE. RECOMMENDED
 - ONE WEEK NOTICE PRIOR TO BEGINNING CONSTRUCTION TO BE GIVEN TO DESIGN ENGINEER IF FIELD INSPECTION IS REQUIRED.
 - CLEAN-OUT MANHOLE TO BE INSTALLED TO WITHIN 6" OF GRADE OVER SEPTIC TANK. RECOMMENDED
 - ALL PROPERTY LINES ARE APPROXIMATE AS PER OWNER AND ARE NOT THE RESULT OF A FIELD SURVEY BY THIS OFFICE.
 - NO WELLS OBSERVED WITHIN 200' OF PROPOSED SYSTEM.
 - LOCATION AND CONFIGURATION OF HOUSE IS SHOWN FOR REFERENCE ONLY. ACTUAL SETBACK DISTANCES TO HOUSE AND ACCESSORY STRUCTURES SHALL CONFORM TO LOCAL ZONING REQUIREMENTS.



PROFILE
HORIZ & VERT SCALE: 1" = 10'

--- 98 --- EXISTING CONTOUR
 --- 98 --- PROPOSED CONTOUR

| | | |
|---|--|---|
| PLAN OF PROPOSED SEWAGE DISPOSAL SYSTEM FOR A LOT ON SOUTH ORCHARD DRIVE, AMHERST PREPARED FOR MARIA FAGUNDES | | FIELD WORK: AB # 4 CEM COMPUTATIONS: C.F.W. DRAFTING: C.F.W. CHECKED: C.A.C. SCALE: AS NOTED DATE: 3-18-88 |
| | ALMER HUNTLEY, & ASSOCIATES, INC. LAND SURVEYORS—PROFESSIONAL ENGINEERS—LANDSCAPE ARCHITECTS 125 PLEASANT STREET NORTHAMPTON, MA. | |
| 3/25/88 10/28/88 Rev. C.A.C. | REV: 10-28-88 P-1808 | SHEET: 1 OF: 1 |

No. 88-36

OCT 27 1988

FEE 90.00

THE COMMONWEALTH OF MASSACHUSETTS

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TOWN OF AMHERST

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10/31/88

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Other - Type of Building No. of persons Showers () - Cafeteria ()
Other fixtures

Design Flow 55 gallons per person per day. Total daily flow 440 gallons.
Septic Tank - Liquid capacity 1500 gallons Length Width Diameter Depth
Disposal field - No. Width 18' Total Length 56' Total leaching area 1000 sq. ft.

Seepage Pit No. Diameter Depth below inlet Total leaching area sq. ft.
Other Distribution box () Dosing tank ()
Percolation Test Results Performed by A.B. Jr. - Huntley Associates Date 3/5/88
Test Pit No. 1 4 minutes per inch Depth of Test Pit 10' Depth to ground water 8'

Description of Soil See attached plan
Nature of Repairs or Alterations - Answer when applicable

Agreement: The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

BUILDEC-417-8836424 Signed [Signature] 10/25/88
Application Approved By [Signature] Date 10/31/88

Application Disapproved for the following reasons:
Permit No. Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by [Installer] at [Location]

has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. [Permit No.] dated [Date]

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE [Date] Inspector [Signature]

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

No. 88-36 Town of Amherst FEE 90.00

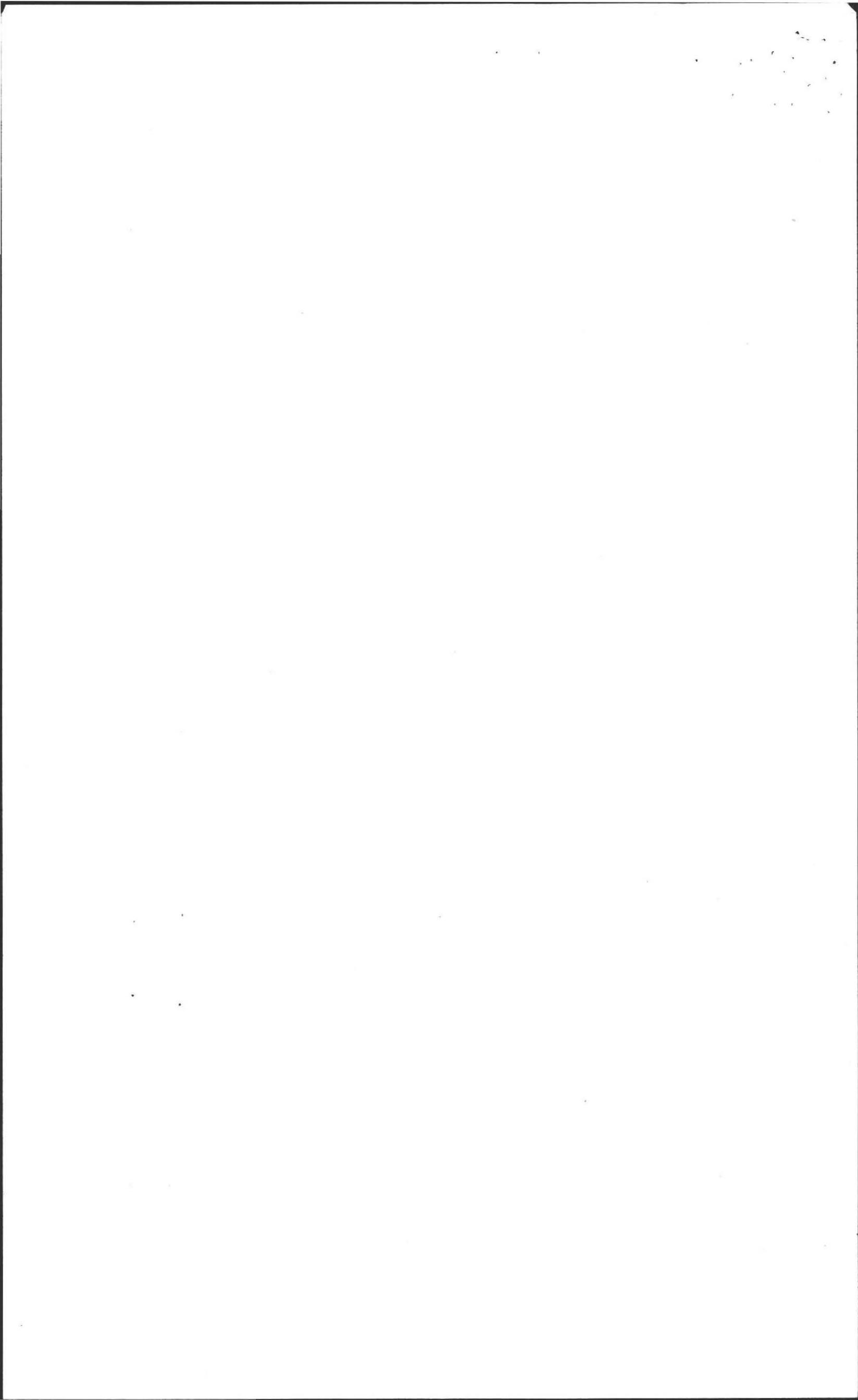
Disposal Works Construction Permit

Permission is hereby granted to Construct (X) or Repair () an Individual Sewage Disposal System at No. Maria Fagundes Lot #4 South Orchard Drive Street

as shown on the application for Disposal Works Construction Permit No. [Permit No.] Dated [Date] for Amherst Health Dept. [Signature] Board of Health

DATE 10/31/88

CHECK OR FILL IN WHERE APPLICABLE



PROPOSED DOMESTIC SUBSURFACE DISPOSAL SYSTEM DESIGN

Prepared For: MARIA FAGUNDES

Location: SOUTH ORCHARD DRIVE AMHERST

Number of Bedrooms: 4

Garbage Disposal: YES

LEACH AREA DESIGN

4 Bedrooms x 2 persons/bedroom = 8 persons

8 Persons x 55 gallons of wastewater/person/day = 440 total gallons of wastewater/day.

Percolation Rate: 4 min/inch

Gallon of wastewater/square feet of leach area for a Percolation Rate of:

4 min/inch = 2.0 Gal/SF Sidewall Area

= 0.83 Gal/SF Bottom Area

- * If a leach bed is to be installed, no sidewall is allowed.
- * If percolation rate exceeds 20 min/inch, no bottom area is allowed.

- SEPTIC TANK -

* WITHOUT GARBAGE DISPOSAL:

_____ Gallons of wastewater/day x 150% = _____ REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: _____ Septic Tank

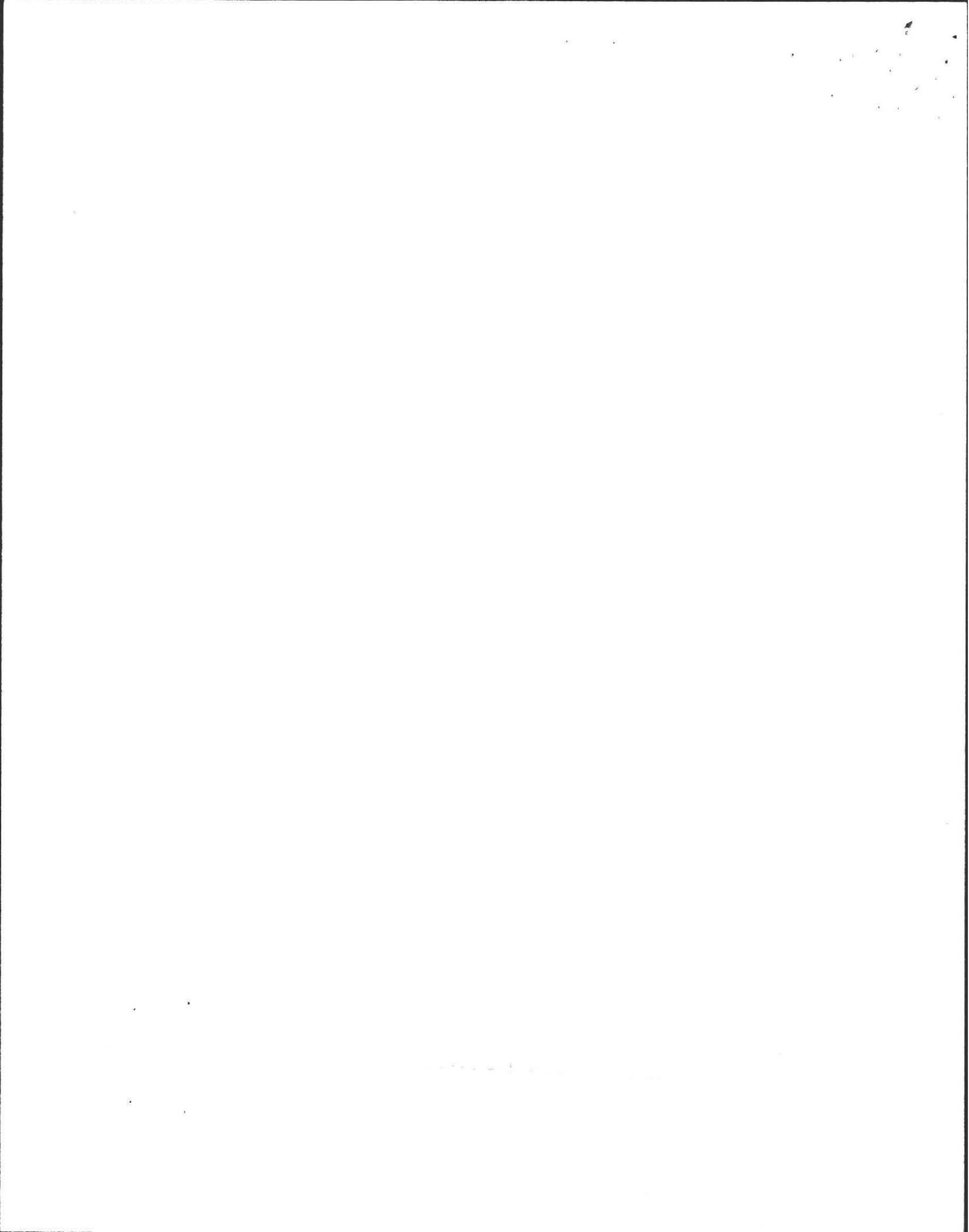
* In no case will the septic tank be less than 1,000 gallons (effective liquid capacity).

** WITH GARBAGE DISPOSAL:

440 Gallons of wastewater/day x 200% = 880 REQUIRED effective liquid capacity of septic tank.

RECOMMENDED: 1500 Septic Tank

** In no case will the septic tank be less than 1,500 gallons (effective liquid capacity).



LEACHING FIELD DESIGN

USING BOTTOM AREA ONLY:

440 Gallons (Total Daily Flow) \div 0.83 gal/SF = 530 SF Leaching Field (REQUIRED)

* With Garbage Disposal: 530 SF Leaching Field \times 1.5 = 795 SF Leaching Field (REQUIRED)

1000 SF Leaching Field (Designed): 56 ' Long \times 18 ' Wide

LEACHING TRENCH DESIGN

SIDEWALL AREA:

_____ Gal/SF \times _____ ' of effective depth \times 1' length \times 2 sides = _____ Gal/LF of trench (sidewall).

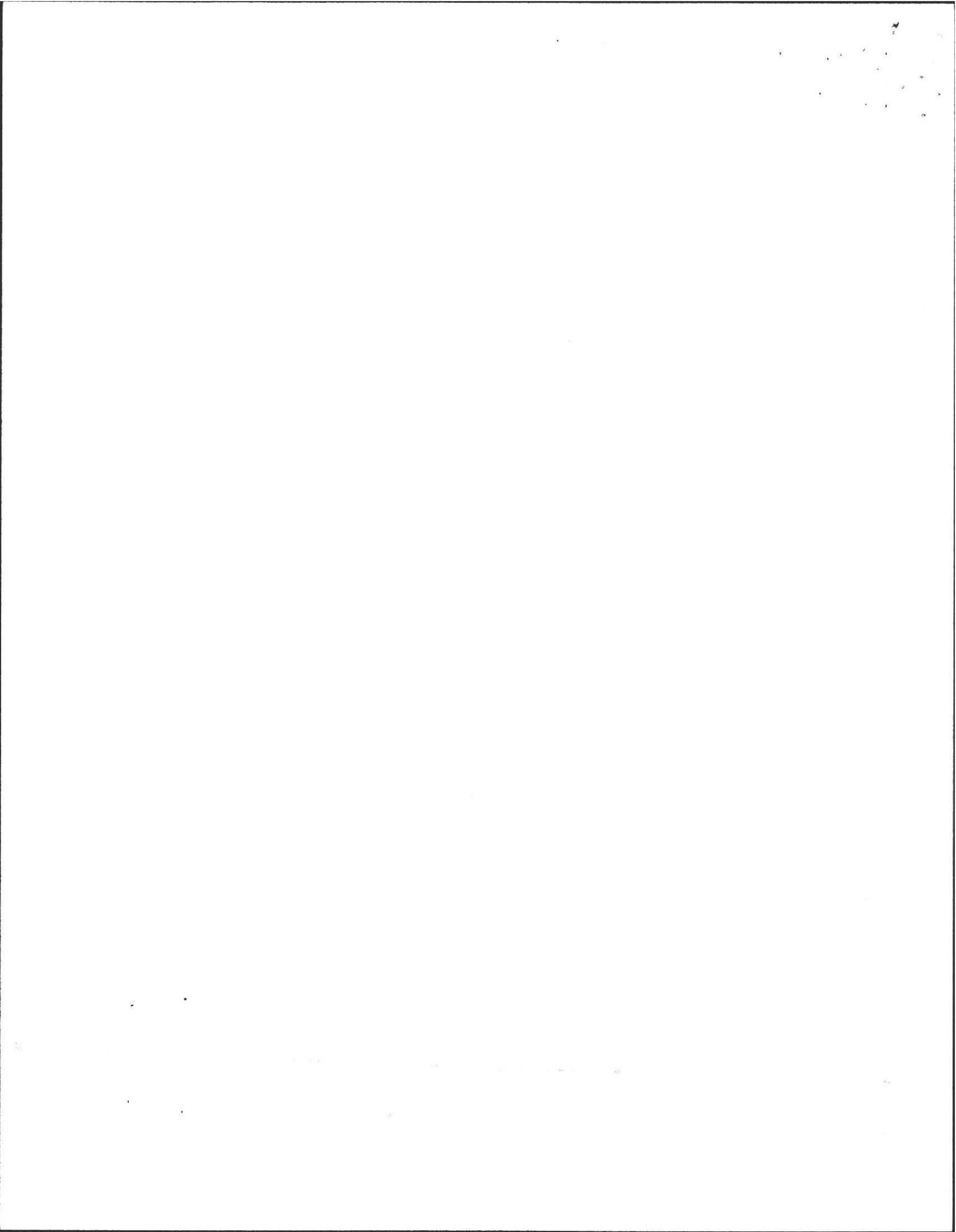
BOTTOM AREA:

_____ Gal/SF \times _____ ' wide \times 1' length = _____ Gal/LF of trench (bottom).
+ _____ Gal/LF (Sidewall)
+ _____ Gal/LF (Bottom)
= _____ TOTAL Gal/LF of trench

Total of _____ Gal/Day (flow) \div _____ Total Gal/Day/LF = _____ LF of trench (REQUIRED)

* With Garbage Disposal: _____ LF of trench \times 1.5 = _____ LF of trench (REQUIRED)

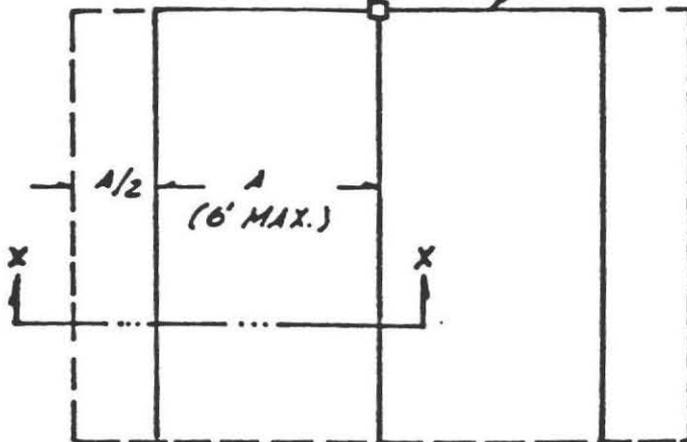
_____ LF of trench (Designed): _____ Trenches, _____ ' Wide \times _____ ' Long with _____ ' Effective Depth.



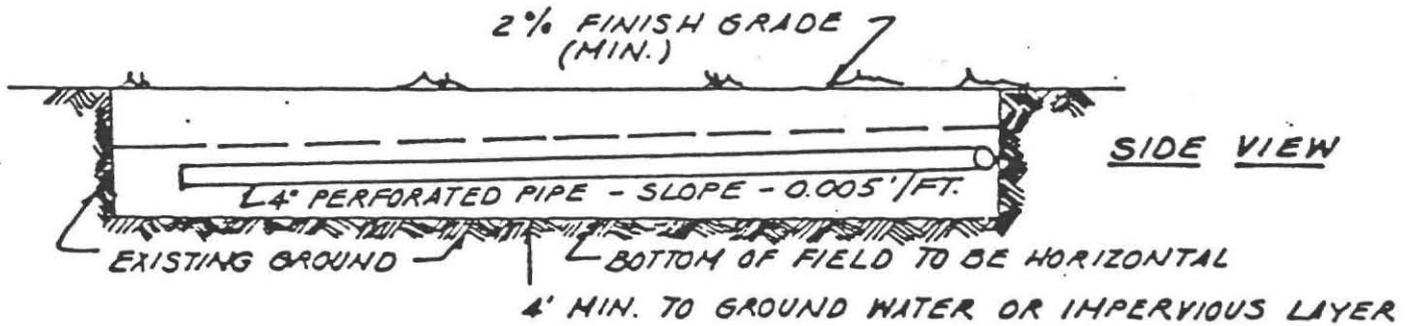
SEPTIC TANK
DISTRIBUTION BOX TO
BE SET LEVEL. PUMP
TO BE 6"

SEWER PIPE - SIZE AS NOTED ON PLAN -
ALL JOINTS TO BE WATERTIGHT -
SLOPE - $\frac{1}{8}$ "/FT. (MIN.)

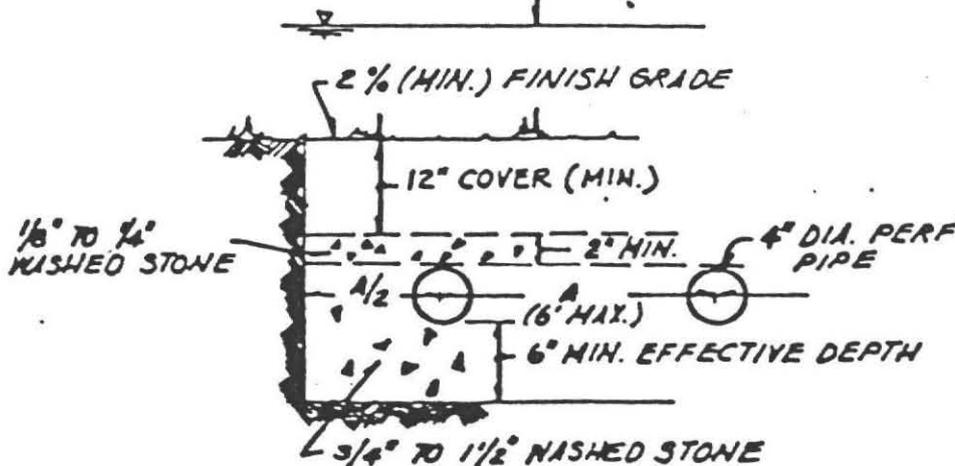
HEADER PIPES FROM THE DISTRIBUTION
BOX TO BE NON-PERFORATED AND
LAID LEVEL FOR AT LEAST ONE
LENGTH OF PIPE



PLAN VIEW



SIDE VIEW



SECTION - X

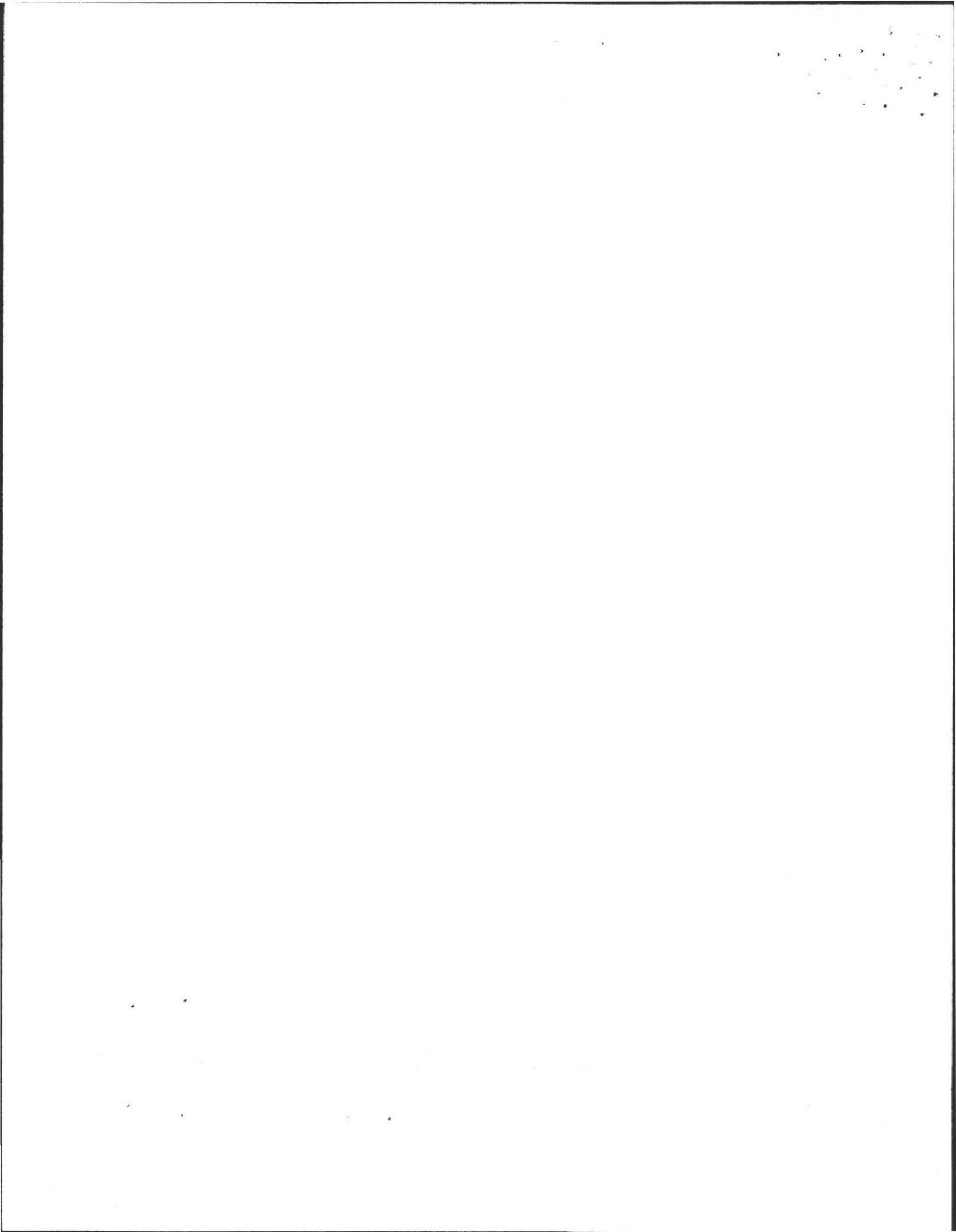
ALMER HUNTLEY, JR. & ASSOCIATES, INC.

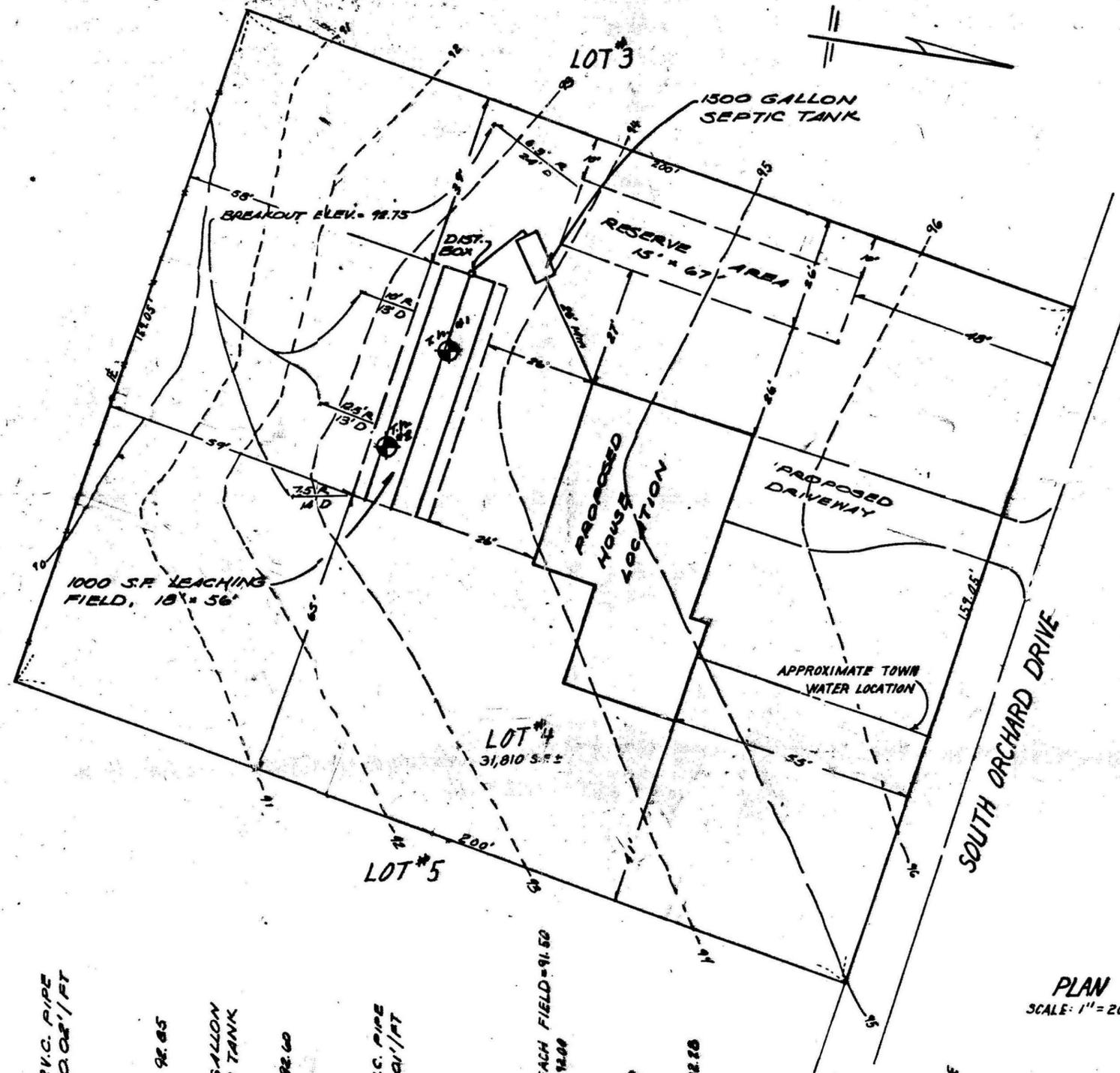
SURVEYORS - ENGINEERS - PLANNERS

125 PLEASANT STREET

NORTHAMPTON MASS

ALL WORK TO BE
DONE IN ACCORDANCE





| OBSERVATION PIT: #1 | | OBSERVATION PIT: #2 | |
|----------------------------|-------|----------------------------|-------|
| DATE: 3-5-88 | | DATE: 3-5-88 | |
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| 10'-0" FINE SAND W/ GRAVEL | 2'-6" | 10'-0" FINE SAND W/ GRAVEL | 3'-6" |
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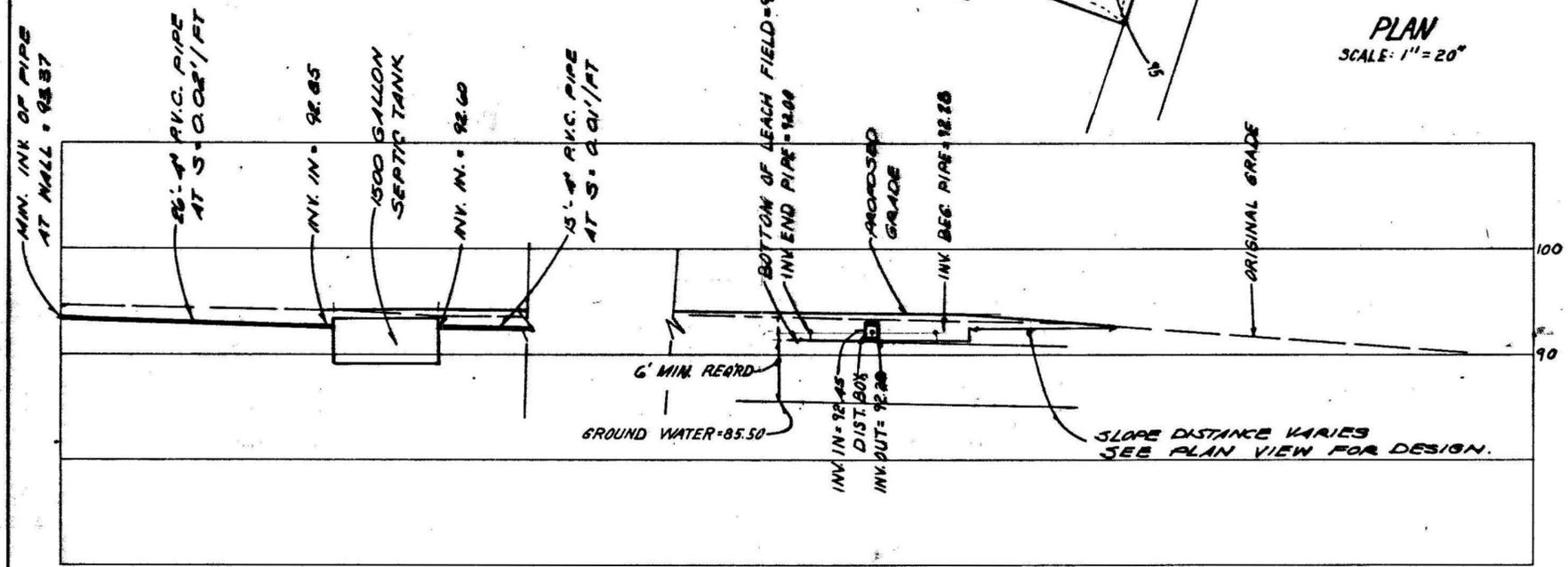
BOARD OF HEALTH WITNESS: DENIS PINSKI

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T.B.M. AT HYD SPINDLE = 100.00

PLAN SCALE: 1" = 20'

--- 98 --- EXISTING CONTOUR
 --- 98 --- PROPOSED CONTOUR



PROFILE HORZ & VERT SCALE: 1" = 10'

PLAN OF PROPOSED SEWAGE DISPOSAL SYSTEM FOR A LOT ON SOUTH ORCHARD DRIVE, AMHERST
 PREPARED FOR MARIA FAGUNDES

| |
|----------------------|
| FIELD WORK: AB (CFM) |
| COMPUTATIONS: C.F.W. |
| DRAFTING: C.F.W. |
| CHECKED: C.A.C. |
| SCALE: AS NOTED |
| DATE: 3-18-88 |

REV: 10-28-88 P.F.B.

ALMER HUNTLEY, & ASSOCIATES, INC.
 LAND SURVEYORS-PROFESSIONAL ENGINEERS-LANDSCAPE ARCHITECTS
 125 PLEASANT STREET
 NORTHAMPTON, MA.

3/23/88 CIVIL *Charles Claver* P-1808 SHEET: 1 OF: 1
 10/28/88 Rev. cae