

106 Shutesbury Rd.

8/14/06
Need MS-Sun D

8-14-06

Monday AT

10 AM

Called

(8/22/06)

For AS-Sun D



106 Shutesbury Rd.

**ENVIRONMENTAL DESIGN, INC.
101 OLD FERRY ROAD
NORTHAMPTON, MA 01060
1-413-585-5020**

August 22, 2006

Board of Health
Town Offices
Amherst, MA 01002

re: Inspection of Septic System Installation, Lot #3, Shutesbury Road & Flat Hills Road

Dear Board:

On August 11, 2006, a representative from our office performed a final inspection of the new construction septic system installation referenced above. The system was installed by Marion Excavating of South Hadley, MA.

Our representative found that the system appears to have been installed properly and in complete accordance with our system plan (Rev. A) dated 09-28-05. A sub-grade inspection was performed and photo documented on 07-28-06. The as-built locations of the house and relevant system components have been documented on the attached drawing. Photos of the sub-grade inspection and final inspection are attached.

If there are any questions, please contact our office.

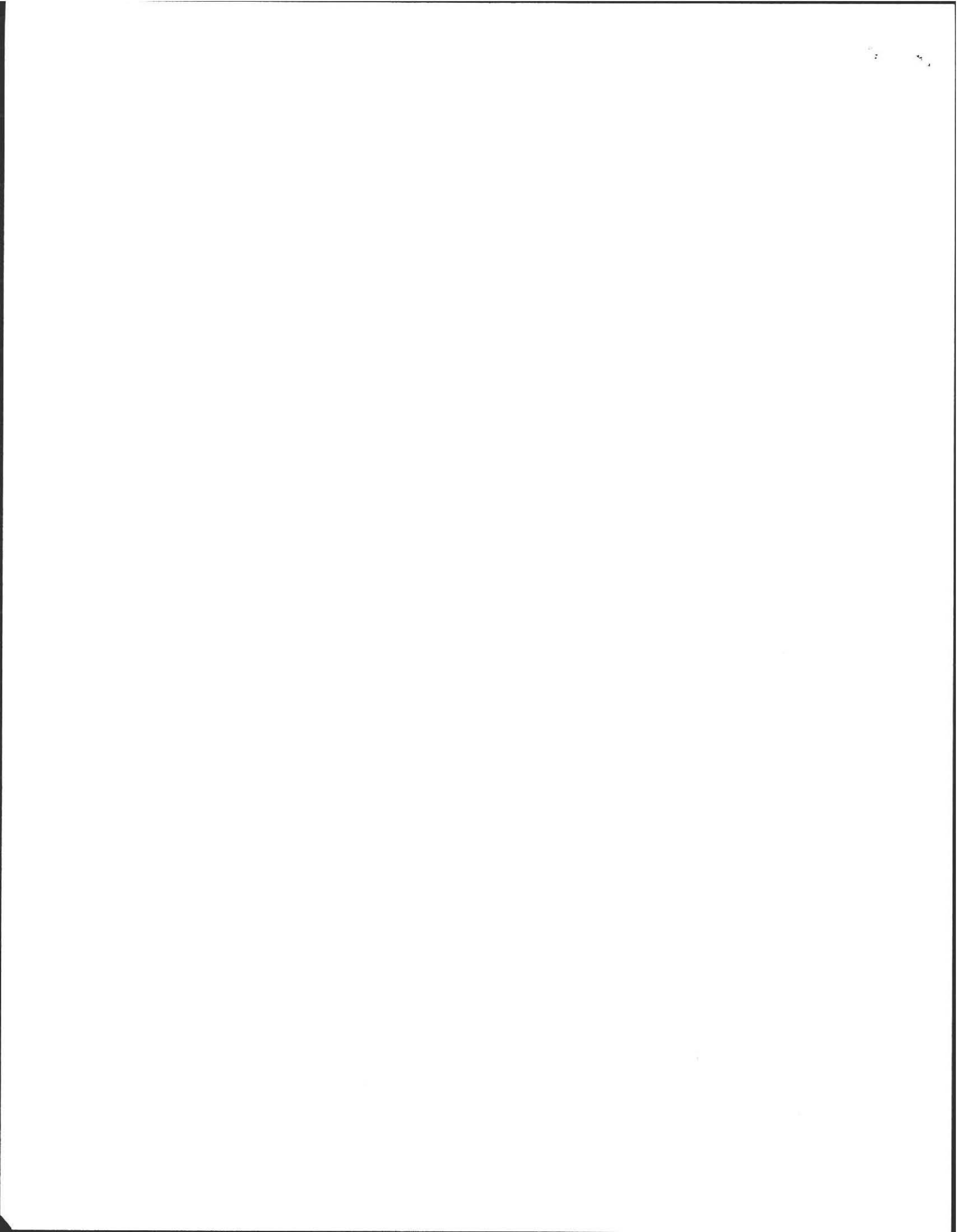
Sincerely yours,


Michael J. Lavigne

I hereby certify that the above referenced system was installed in accordance with Title V and the approved system design prepared by Environmental Design, Inc.



Marion Excavating, South Hadley, MA



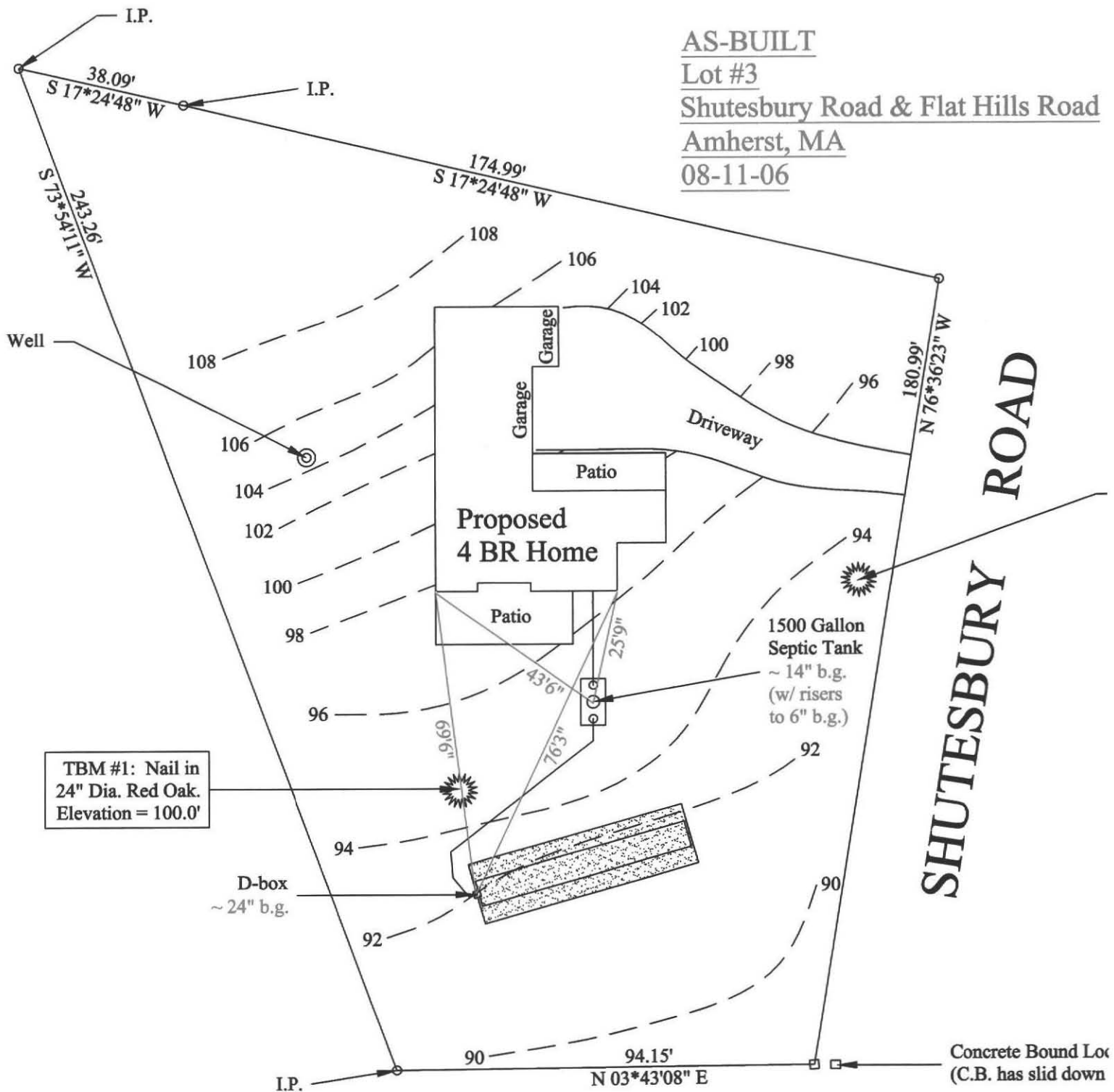
AS-BUILT

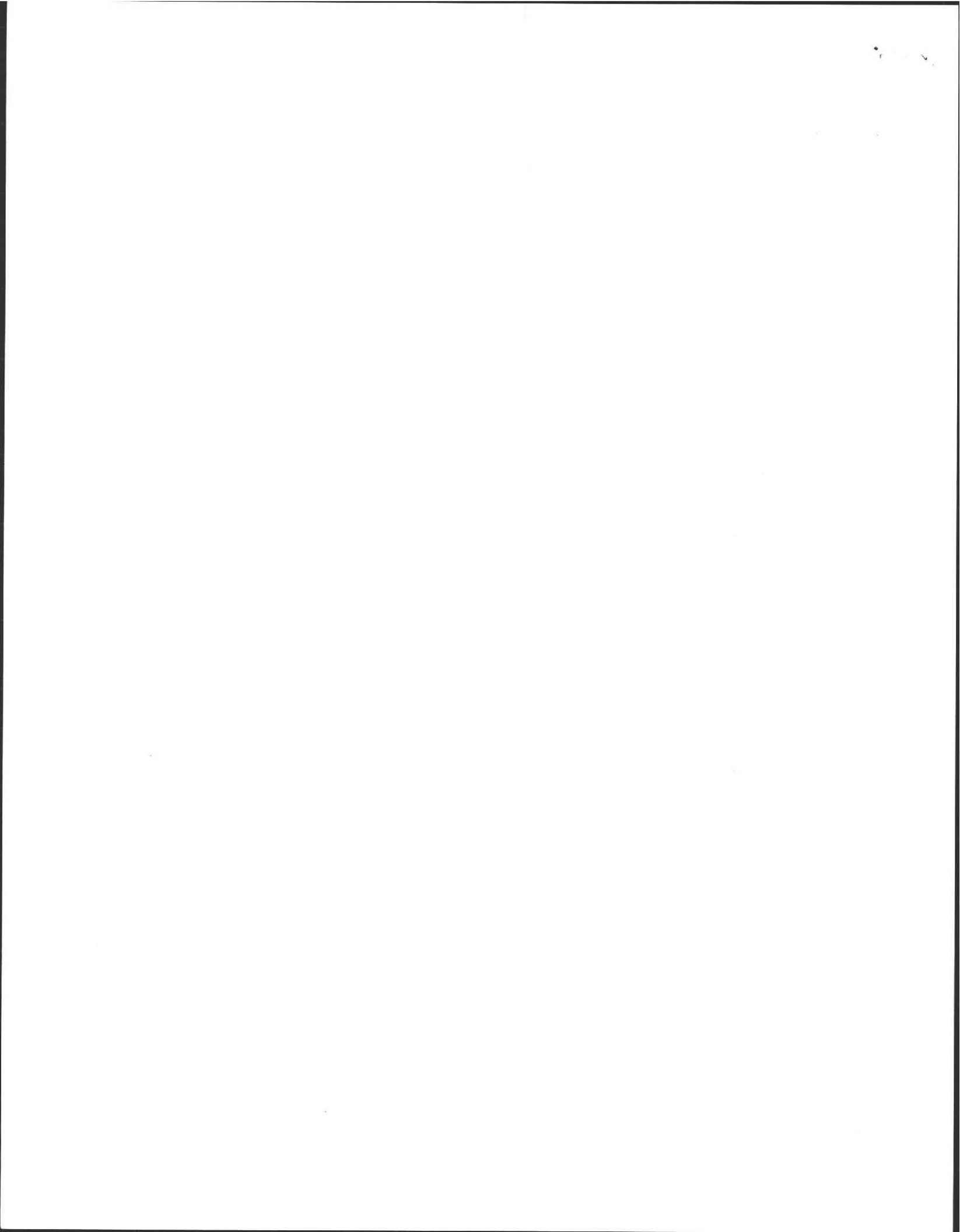
Lot #3

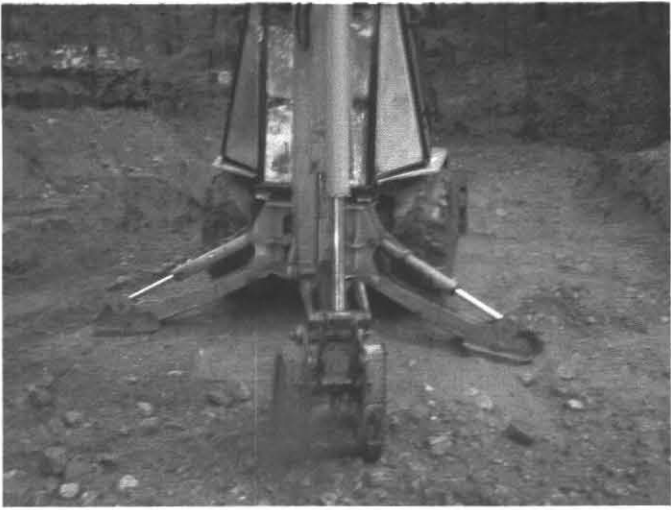
Shutesbury Road & Flat Hills Road

Amherst, MA

08-11-06







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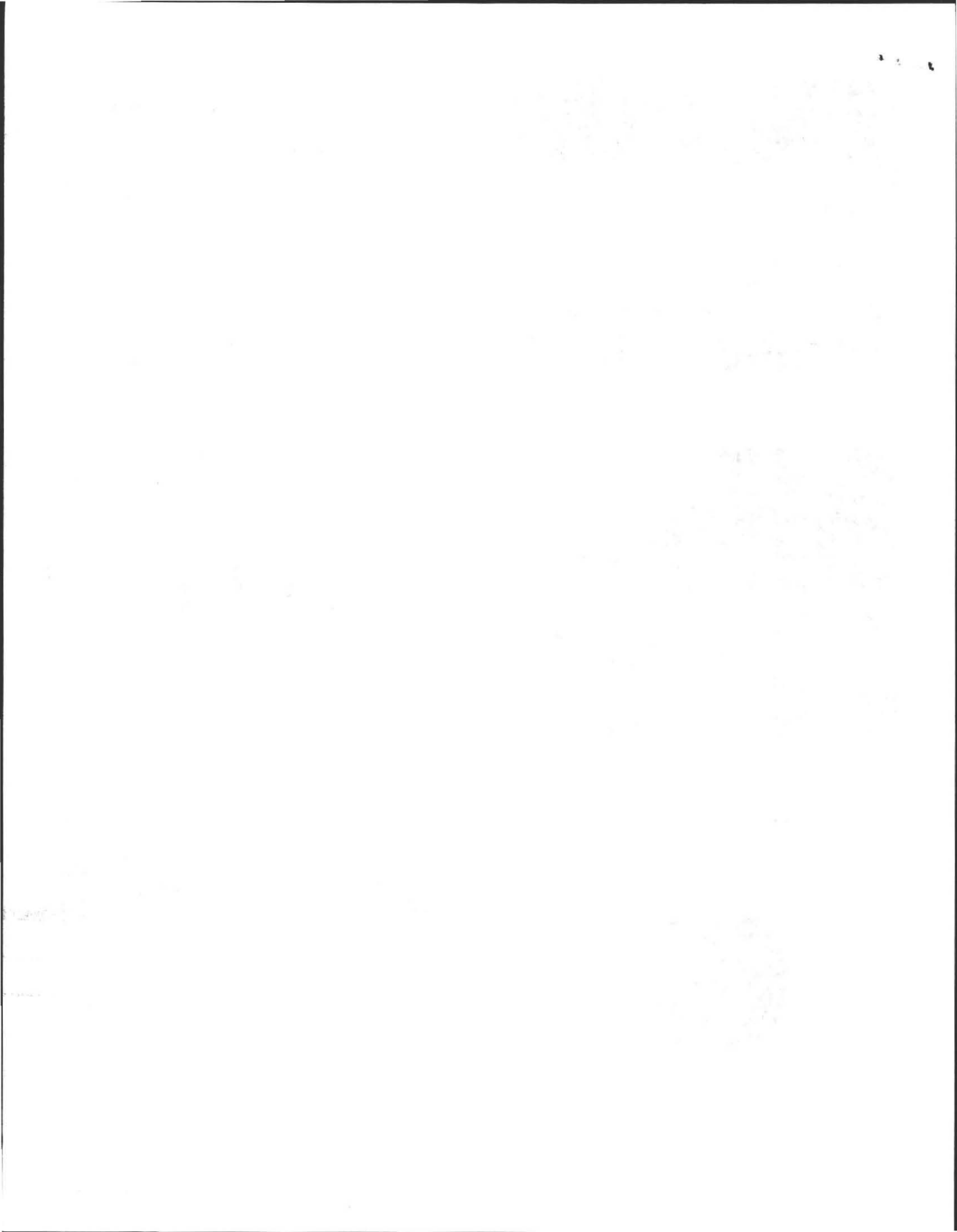
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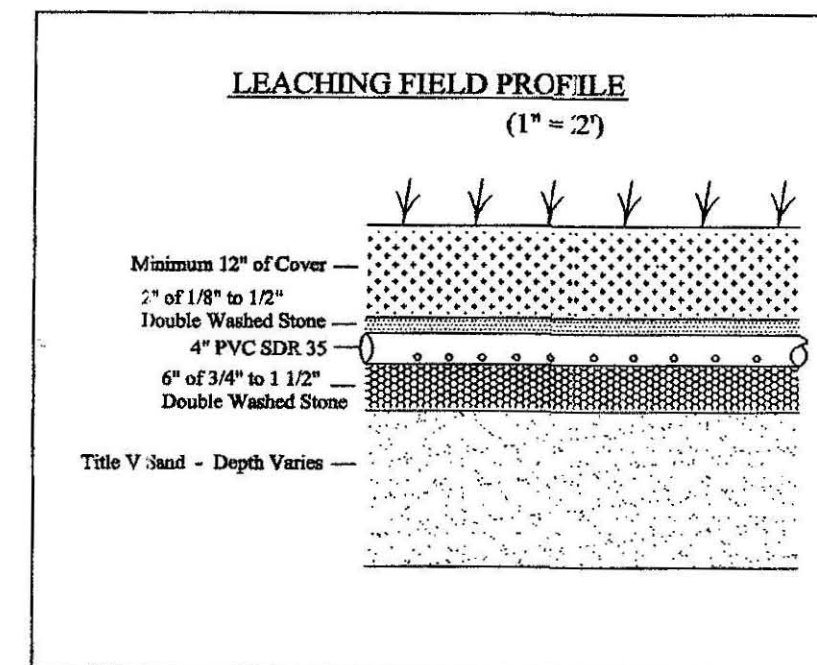
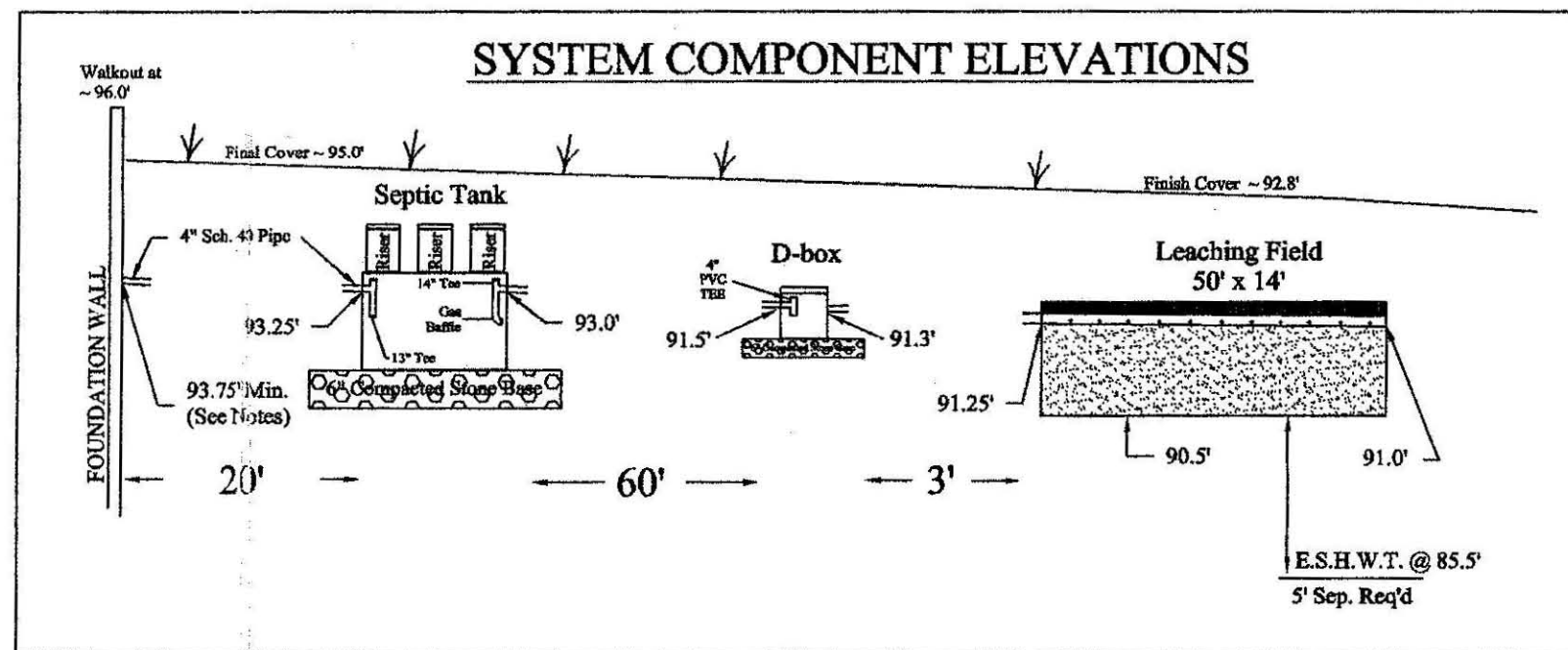




Soil Evaluator: Alan Weiss
 Witness: Dave Zarozinski
 Date: November 09, 2004

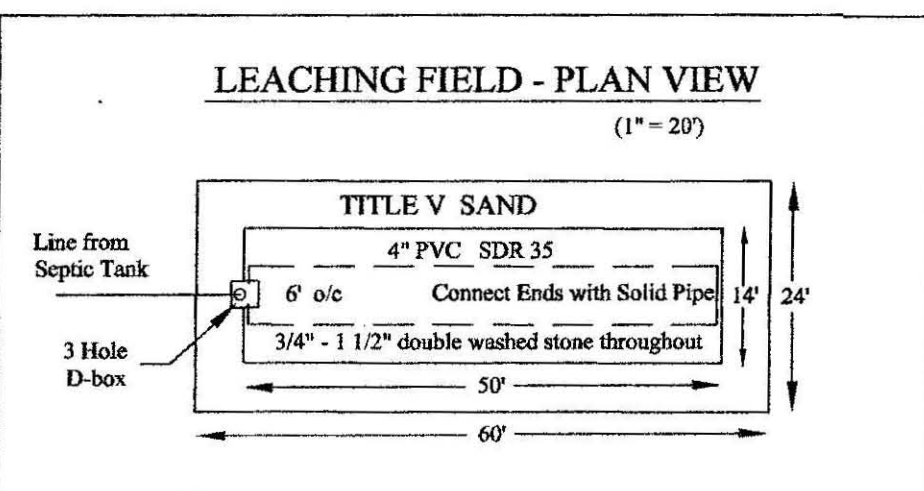
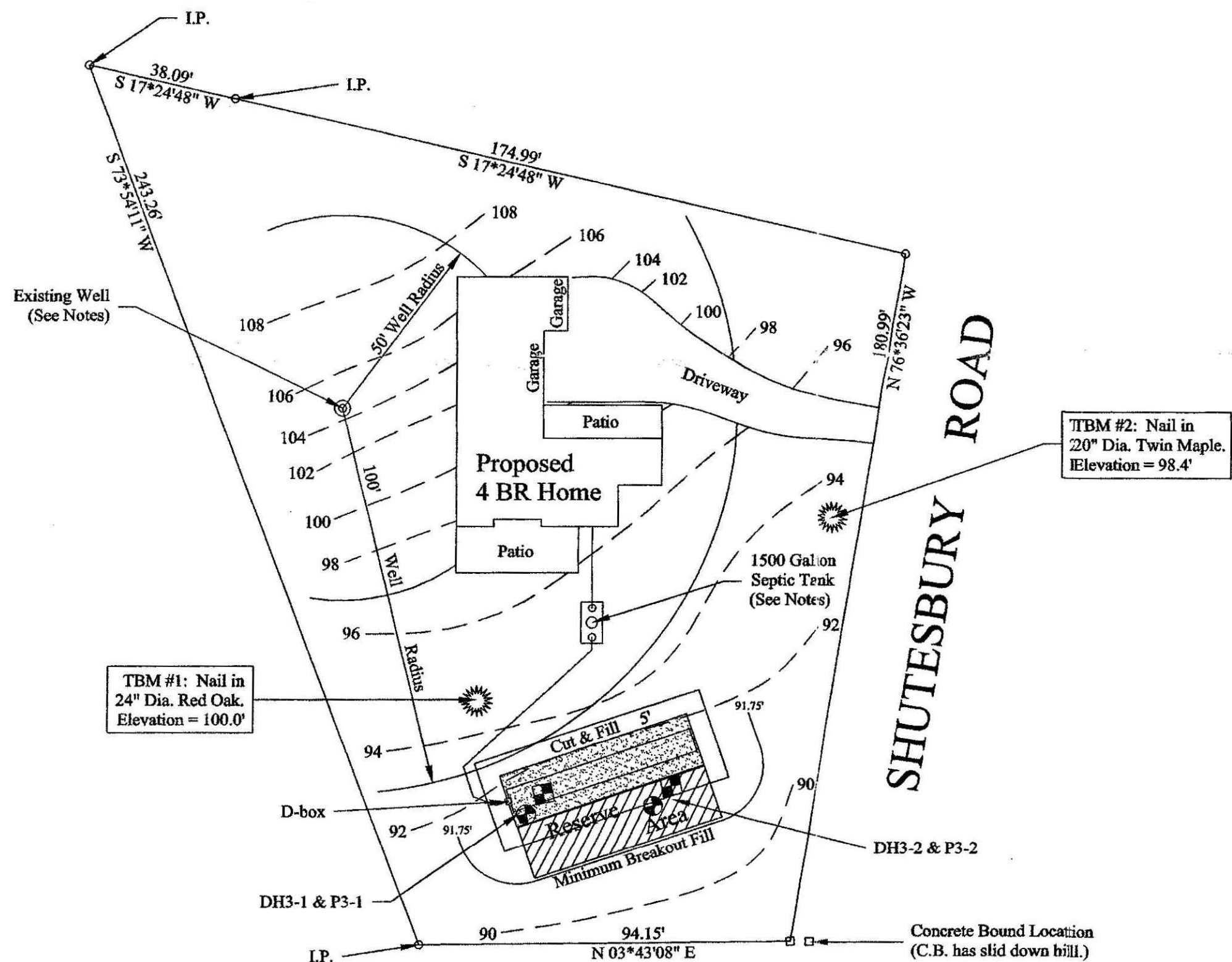
Hole Name: DH3-1 Elevation: 91.7'
 Depth Horizon Texture Color Mottles
 0"-6" A FSL 10YR3/3 None
 6"-22" Bw LS 2.5Y5/6 None
 22"-114" C S (m-c) 10YR4/4 10YR6/8 & 2.5Y4/2 @ 75"
 Estimated Seasonal High Water Table @ 75" or 85.5"
 Percolation Rate = <2 min/inch

Hole Name: DH3-2 Elevation: 91.3'
 Depth Horizon Texture Color Mottles
 0"-8" A FSL 10YR3/3 None
 8"-26" Bw LS 2.5Y5/6 None
 26"-132" C S (m-c) 10YR4/4 10YR6/8 & 2.5Y4/2 @ 84"
 Estimated Seasonal High Water Table @ 84" or 84.3"
 Percolation Rate = <2 min/inch



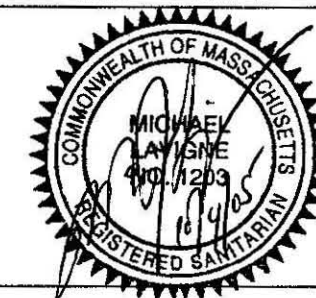
CONSTRUCTION NOTES

- ONE (1) RECTANGULAR LEACHING FIELD, 50' LONG AND 14' WIDE, WITH 6" OF 3/4" - 1 1/2" DOUBLE WASHED STONE BENEATH TWO (2), 50' LONG 4" PVC LATERALS, SPACED 6' O/C, CONNECT ENDS WITH SOLID PIPE COVER WITH 2" OF 1/8" - 1/2" DOUBLE WASHED STONE.
- SYSTEM IS DESIGNED FOR A FOUR BEDROOM HOME WITH NO DISPOSAL.
- AVOID DRIVING OVER SEPTIC TANK AND LEACHING AREAS.
- SEPTIC TANK (1500 GALLON) TO BE FITTED WITH 4" PVC SCH. 40 INLET AND OUTLET TEES AND A GAS BAFFLE, SEE PROFILE. TANK TO BE PLACED ON A STABLE BASE OF COMPACTED STONE AT LEAST 6" THICK. TANK TO BE FITTED WITH RISERS TO WITHIN 6" OF GRADE OVER ALL ACCESS COVERS.
- BUILDING EXIT LINE TO BE 4" PVC SCH. 40, WITH A MINIMUM SLOPE OF 2%.
- ALL OTHER PIPE TO BE 4" PVC SDR 35 (OR EQUIVALENT).
- ALL TOPSOIL AND SUBSOIL (APPROXIMATELY 26") TO BE REMOVED FROM BENEATH AND FOR FIVE (5) FEET AROUND S.A.S. AND REPLACED WITH TITLE V SAND PRIOR TO PLACEMENT OF THE LEACHING FIELD (SEE CUT & FILL). REF: 310 CMR 15.255
- TO PREVENT SHORT CIRCUITING OF THE EFFLUENT, THE D-BOX IS TO BE INSTALLED WITH A 4" PVC TEE CEMENTED TO THE INLET PIPE AND THE FIRST TWO FEET OF EXIT PIPES ARE TO BE LAID LEVEL. D-BOX TO BE SET ON A STABLE BASE OF COMPACTED STONE AT LEAST 6" THICK.
- SET FIELD AT ELEVATION NOTED IN PROFILE, BACKFILL TO PROVIDE A MINIMUM OF 12" OF COVER AND PITCH SLIGHTLY TO SHED SURFACE WATER.
- THE TEMPORARY BENCHMARKS (TBM), THE IRON PINS (I.P.), AND THE WELL, ARE ALL ACCURATELY LOCATED AND SHOULD BE USED TO ENSURE PROPER LOCATION AND ORIENTATION OF SYSTEM COMPONENTS AND THE HOUSE. THE CONCRETE BOUND IS SHOWN WHERE SURVEYED - SEE NOTES.
- ALL WELLS TO BE AT LEAST 100' FROM LEACHING FIELD AND 50' FROM SEPTIC TANK.
- OTHER THAN THE ONE SHOWN, THERE ARE NO WELLS WITHIN 150' OF THE DESIGN AREA.
- ALL CONSTRUCTION TO BE I.A.W. TITLE V, THE STATE ENVIRONMENTAL CODE.
- NOTIFY ENGINEER AT LEAST 72 HOURS PRIOR TO THE TIME INSPECTION IS REQUIRED.



Design Calculations

Design Daily Flowrate: 110 GPD/BR x 4 BR = 440 GPD
 Design Perc. Rate: 5 min/inch (Tested @ <2 & <2 min/inch)
 System Leaching Area: 50' x 14' = 700 Sq. Ft.
 L.T.A.R. (Class 1 Soil): 700 Sq. Ft. x 0.74 GPD/Sq. Ft. = 518 GPD



ENVIRONMENTAL DESIGN, INC.

101 OLD FERRY ROAD
 NORTHAMPTON, MA 01060

PHONE: (413) 585-5020
 FAX: (413) 582-0621

SEWAGE DISPOSAL SYSTEM

Lt. 3, Flat Hills/Shutesbury Rds.
 Amherst, MA

for

Lucid Development
 P. O. Box 252
 South Hadley, MA 01075

413-531-5498

FIELD 09/09/05
 SURVEYOR ML/JP
 DESIGNER ML
 CHECKER ML/MM
 DESIGN 09/14/05

DESIGN REFERENCES

SITE LOCATION
 Lot #3, Flat Hills/Shutesbury Roads
 Amherst, MA
 Pl. Bk. 205, Pg. 103

BENCHMARKS
 TBM #1: Nail in 24" Dia. Red Oak. Elev. = 100.0'
 TBM #2: Nail in 20" Dia. Twin Maple. Elev. = 98.4'

LEGEND

SCALE: 1" = 30'
 EXISTING CONTOUR - - - - -
 PROPOSED (FILL) CONTOUR _____
 SOIL EVALUATION HOLE [Symbol]
 PERC HOLE [Symbol]

APPROVALS & REVISIONS

Rev. A Revs. per B.O.H., Profiles/Notes 9-28-05