

98 IDUNA LAKE



No. 08-10

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT



Application for a Permit to Construct () Repair (x) Upgrade () Abandon () - Complete System Individual Components

| | | | |
|------------------|----------------------|-----------------|--------------------------------|
| Location | <u>98 Iduna Lane</u> | Owner's Name | <u>Joe Bass + Mary O'Brien</u> |
| Map/Parcel# | <u>24B/58</u> | Address | <u>98 Iduna Lane</u> |
| Lot# | <u>#58 (1d)</u> | Telephone# | <u>256-1014</u> |
| Installer's Name | <u>Adairs</u> | Designer's Name | <u>Alan Weiss</u> |
| Address | <u>Amherst</u> | Address | <u>Belchertown</u> |
| Telephone# | <u>531-7921</u> | Telephone# | <u>323-5157</u> |

Type of Building Residence - Dwelling Lot Size 10+ ac sq. ft.
 Dwelling - No. of Bedrooms 4 BR Garbage grinder yes
 Other - Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other Fixtures _____
 Design Flow (min. required) 110 gpd Calculated design flow 440 (660) Design flow provided 666 gpd
 Plan: Date 7/14/08 Number of sheets 1 Revision Date _____
 Title Septic System Repair Design
 Description of Soil(s) Class 1: Sand
 Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 6-27-08

DESCRIPTION OF REPAIRS OR ALTERATIONS _____

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed Mary O'Brien Date 7-18-08

Inspections _____

No. 08-10

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

FEE \$150.00

Description of Work: Individual Component(s) Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (x), Upgraded (), Abandoned ()

by: Adair's Construction } see attached letter!
at 98 Iduna Lane

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 08-10, dated 07-14-08. Approved Design Flow 666 (gpd)

Installer Adair Construction

Designer: Alan Weiss Inspector: Ellen Sol Date: 10-07-08

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 08-10

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

FEE \$300.00

Permission is hereby granted to; Construct () Repair (x) Upgrade () Abandon () an individual sewage disposal system at 98 Iduna Lane as described in the application for Disposal System Construction Permit No. 08-10, dated 06-27-08.

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA Date 10-02-08 Board of Health Ellen Sol DC, MPH, RS

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

- Wetland Consults
- Soil and Water Testing
- 21E Site Investigations
- Percolation Tests and
- Septic Designs
- Title 5 Inspections

0 Old Enfield Rd.
Belchertown, MA 01007
13) 323-5957 & 323-4916 (FAX)

aeweiss@charter.net

Date: 6-27-08

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss
Witnessed By: E. Bokina

Date: 6/27/08

| | |
|---|---|
| Location Address or Lot # <u>98 Iduna Lane</u> | Owner's Name, Address, and Telephone # <u>Joe Bass + May O'Brien</u> <u>98 Iduna Lane</u> <u>Amherst, MA.</u> <u>250-1014</u> |
| New Construction <input type="checkbox"/> Repair <input type="checkbox"/> | |

Office Review

Published Soil Survey Available: No Yes

Year Published _____ Publication Scale _____ Soil Map Unit _____
Drainage Class _____ Soil Limitations _____

Surficial Geologic Report Available: No Yes

Year Published _____ Publication Scale _____

Geologic Material (Map Unit) _____

Landform _____

Flood Insurance Rate Map:

Above 500 year flood boundary No Yes

Within 500 year flood boundary No Yes

Within 100 year flood boundary No Yes

Wetland Area:

National Wetland Inventory Map (map unit) _____

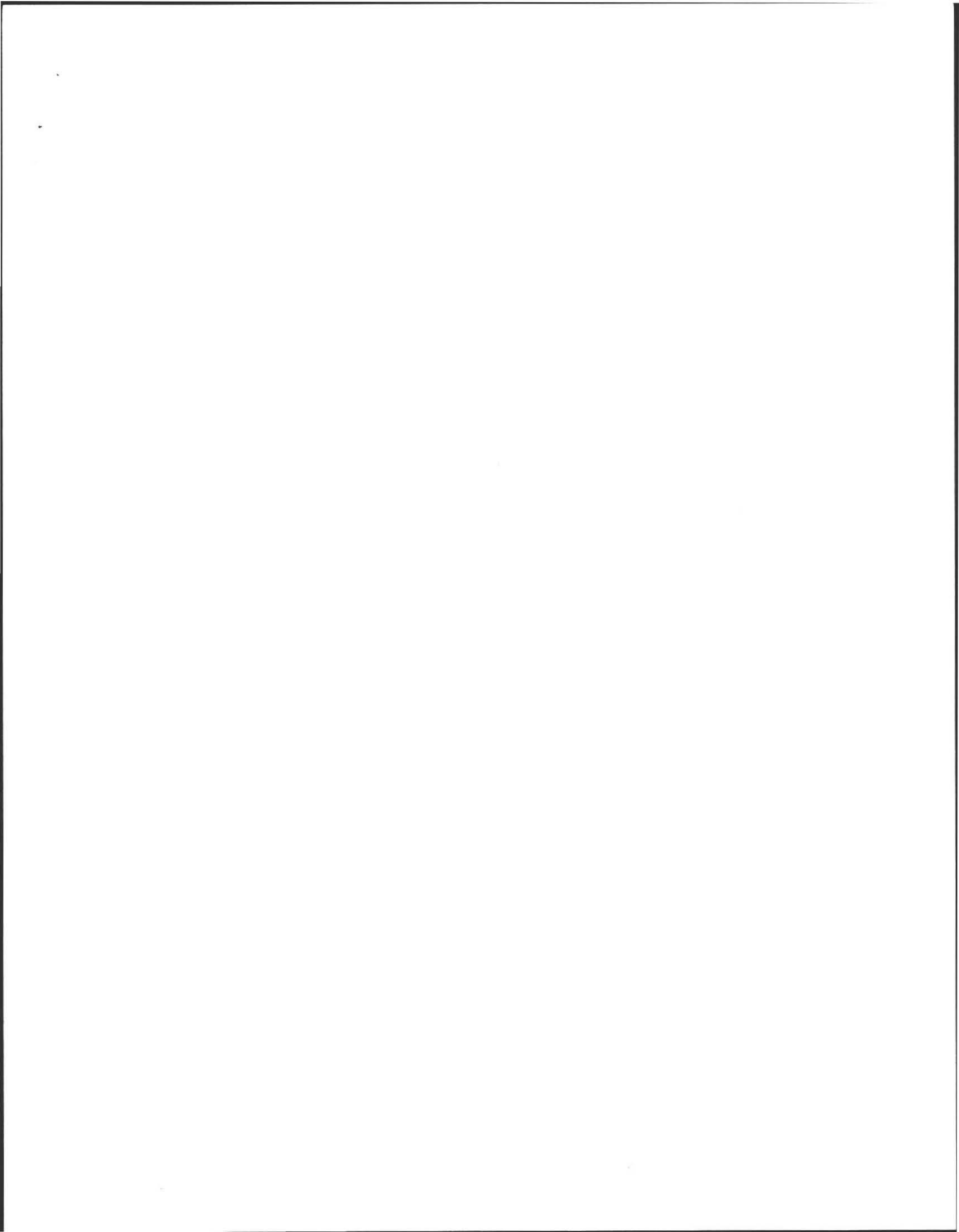
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal Normal Below Normal

Other References Reviewed: _____





98 DONA Lane

Location Address or Lot No. _____

On-site Review

Deep Hole Number 112 Date: 6-27-08 Time: 11:40 Weather SUN 80°f

Location (identify on site plan) _____

Land Use Road eas Slope (%) 3 Surface Stones _____

Vegetation Wooded

Landform Terraced

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100' feet Drainage way _____ feet
 Possible Wet Area 100' feet Property Line _____ feet
 Drinking Water Well 100' feet Other _____

DEEP OBSERVATION HOLE LOG*

| Depth from Surface (Inches) | Soil Horizon | Soil Texture (USDA) | Soil Color (Munsell) | Soil Mottling | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
|-----------------------------|----------------|---------------------|----------------------|---------------|--|
| #1 0-10" | A | FSC | 10YR 3/3 | | Friable. |
| 10"-28" | B _w | LS | 10YR 5/6 | NOT obs | |
| 28"-120" | C | S | 10YR 4/3 | | C. Sand + gravel Loose, granular. 10% boulders |
| #2 0-8" | A | FSC | 10YR 3/3 | | ↓ SAME |
| 8"-26" | B _w | LS | 10YR 5/6 | NOT obs | |
| 26"-132" | C | STG | 10YR 4/3 | | |

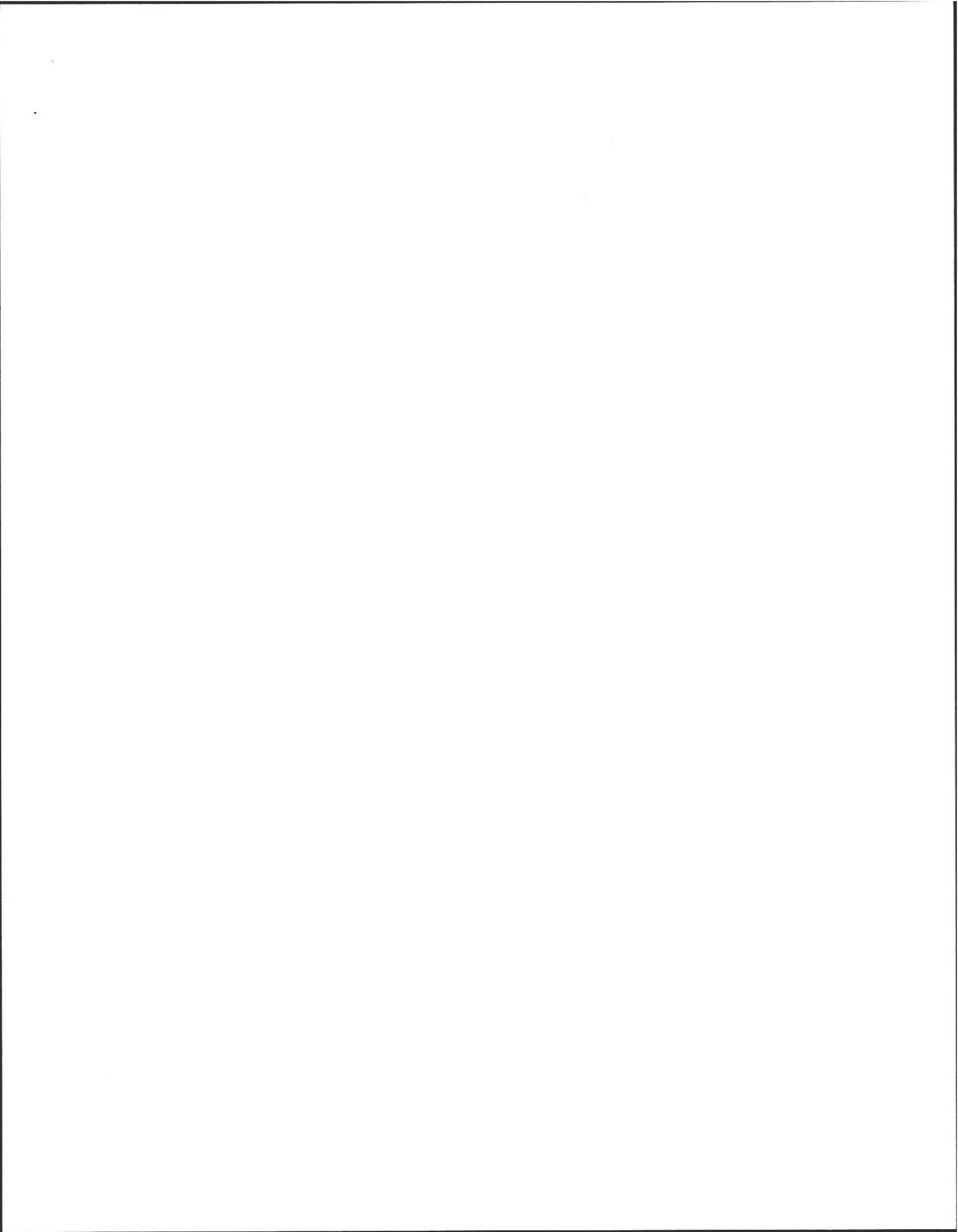
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Dutwash Depth to Bedrock: 132"

Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: NOT

Estimated Seasonal High Ground Water: 120"





Location Address or Lot No. #1 98 Iduna Lane

Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole inches
- Depth weeping from side of observation hole inches
- Depth to soil mottles 120" inches
- Ground water adjustment feet

Index Well Number Reading Date Index well level

Adjustment factor Adjusted ground water level

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

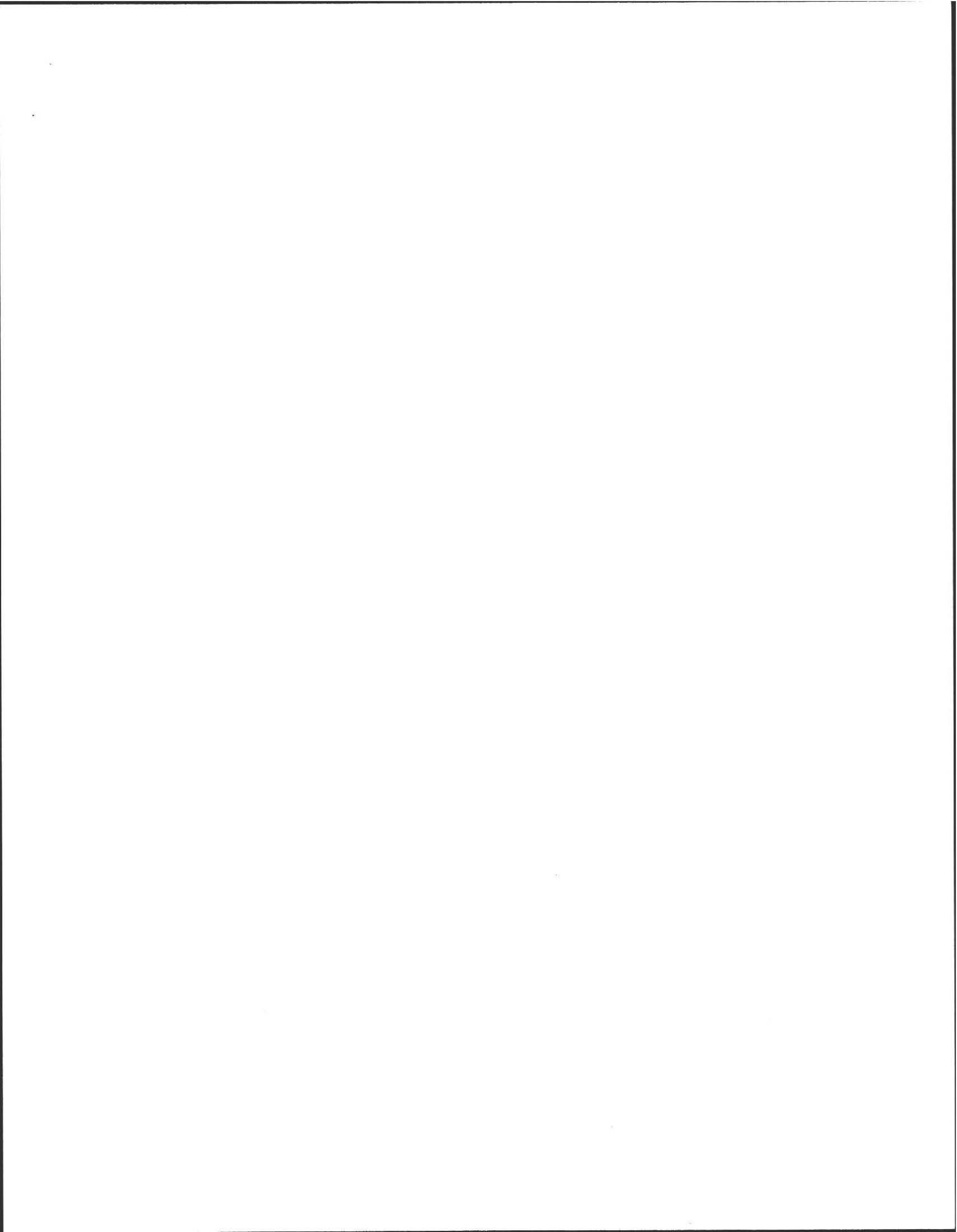
If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature [Signature] Date 6/27/08





Location Address or Lot No. 98 Iduna Lane

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

| Percolation Test* | | |
|----------------------|--------------|---------------------|
| Date: <u>6/27/08</u> | | Time: <u> </u> |
| Observation Hole # | <u>140"</u> | |
| Depth of Perc | <u>P1</u> | |
| Start Pre-soak | <u>11:35</u> | |
| End Pre-soak | <u>11:50</u> | |
| Time at 12" | <u>11:50</u> | |
| Time at 9" | <u>11:52</u> | |
| Time at 6" | <u>11:54</u> | |
| Time (9"-6") | <u>22</u> | |
| Rate Min./Inch | <u>22</u> | |

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

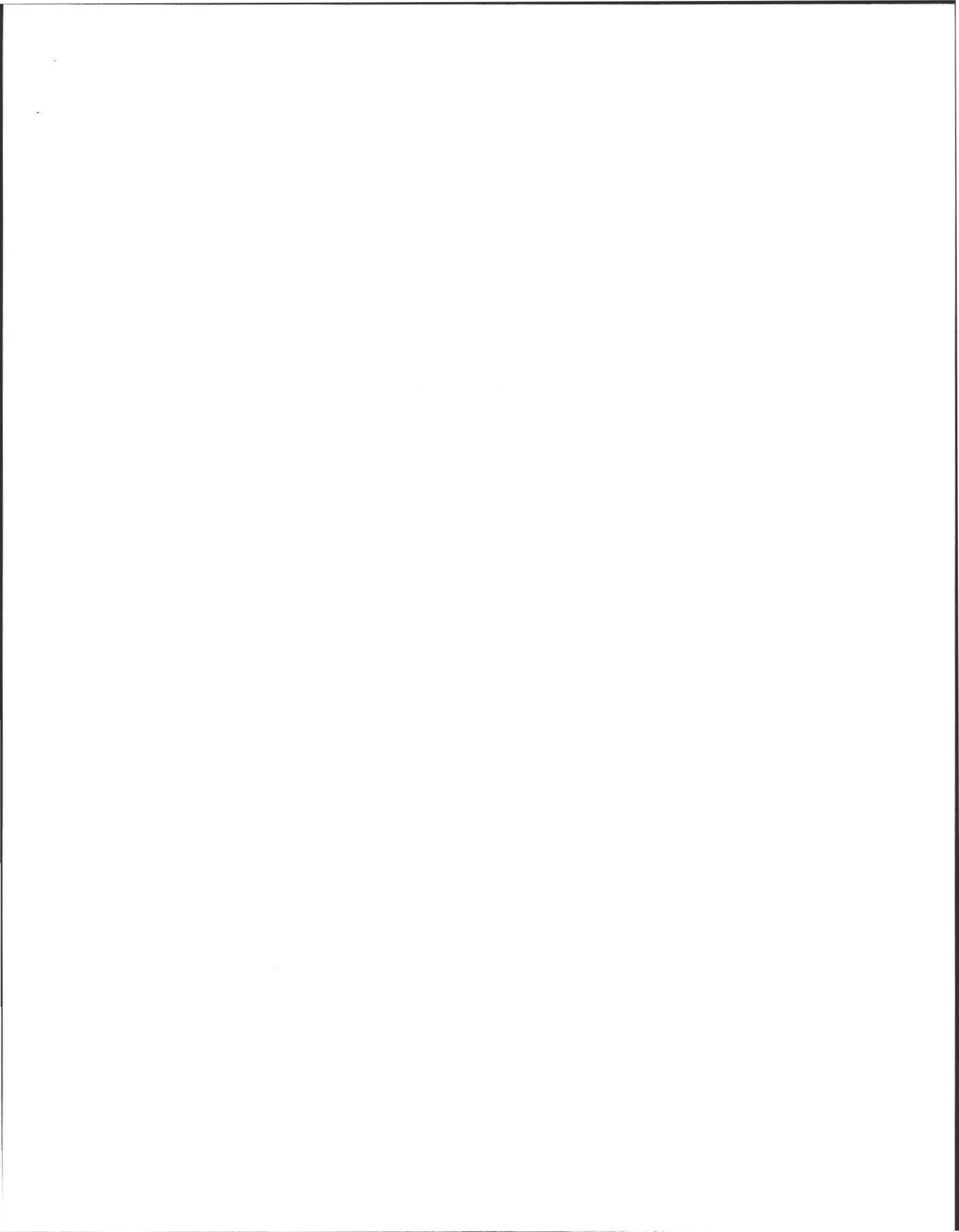
Site Passed Site Failed

Performed By: A. Weiss

Witnessed By: E. Bokina

Comments: _____







- Trails
- + Rail Lines
- Elevations
- Elevation Contours
 - Index Contour
 - Intermediate Contour
 - Depression - Index
 - Depression - Intermediate
 - Obscured - Index
 - Obscured - Intermediate
 - Obscured Depression - Index
 - Obscured Depression - Int
- Elevation Model
 - High : 1,258.99'
 - Low : 128.56'
- Miscellaneous Lines
- Transportation
 - Pavement
 - Unpaved Road
 - Tree Cover

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet

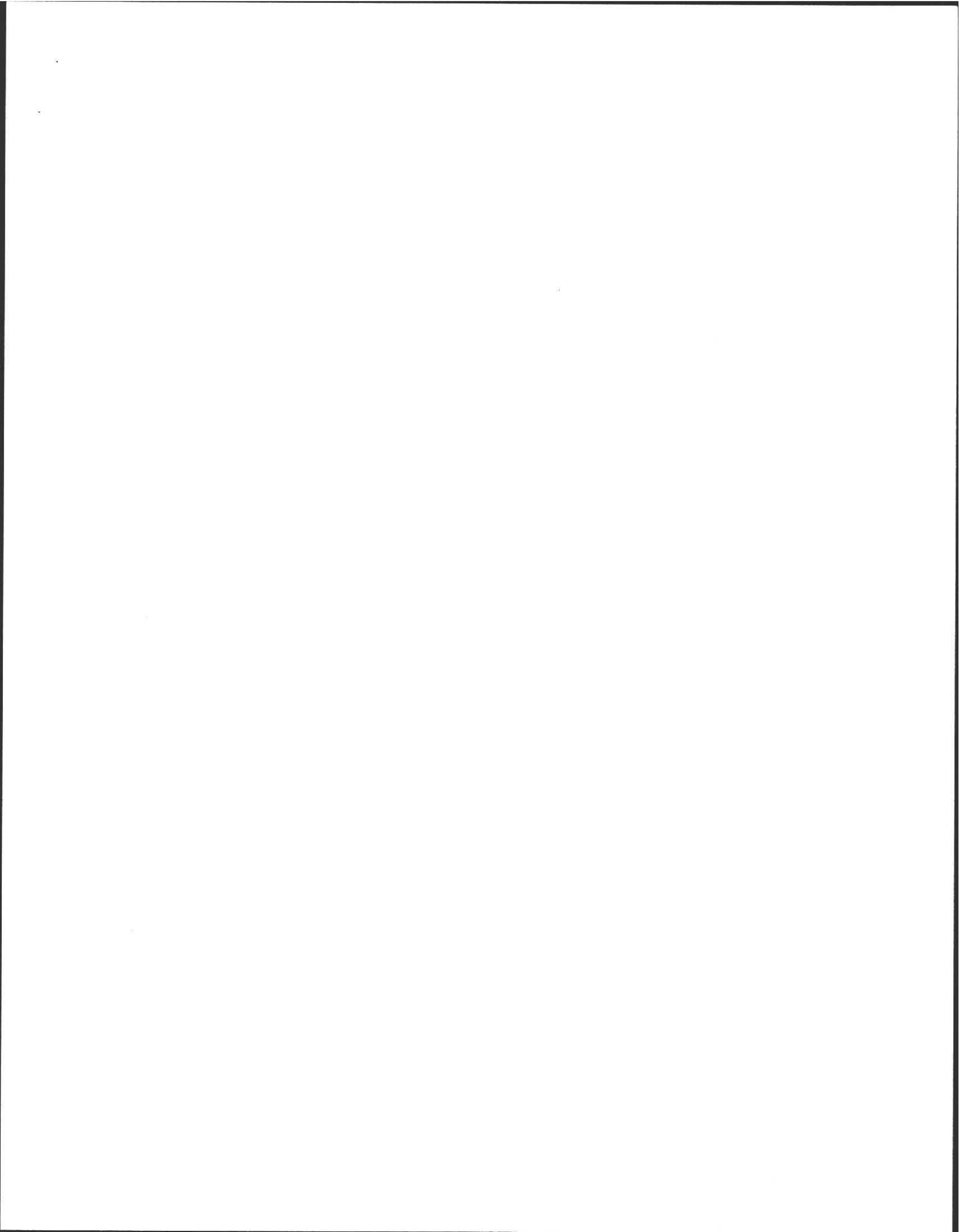
Planimetric basemap features compiled at 1"=40' and 1"=100' scale from April, 1999 Aerial Photography. Aerial Photography: April, 2004. Parcels compiled through a "best-fit" methodology to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes.

THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.

1" = 100 ft





| CURRENT OWNER | | TOPO. | UTILITIES | STRT./ROAD | LOCATION | CURRENT ASSESSMENT | | | |
|--|--|-------------------------|----------------|------------|------------------------|--------------------|------|-----------------|----------------|
| O'BRIEN, MARY B BASS, JOSEPH S 98 IDUNA LN | | 2 | Public Water | | | Description | Code | Appraised Value | Assessed Value |
| | | 3 | Public Sewer | | | RESIDENTL | 1010 | 289,200 | 289,200 |
| | | | | | | RES LAND | 1010 | 185,500 | 185,500 |
| AMHERST, MA 01002 Additional Owners: | | SUPPLEMENTAL DATA | | | Total: 474,700 474,700 | | | | |
| | | Other ID: 24B000058 | Precinct Units | | | | | | |
| | | Calc Frontag 1228.4 | | | | | | | |
| | | Owner Occup APR PARCELS | | | | | | | |
| | | ZBA Action D | | | | | | | |
| | | GIS ID: 24B-58 | ASSOC PID# | | | | | | |

601
AMHERST, MA

VISION

| RECORD OF OWNERSHIP | | BK-VOL/PAGE | SALE DATE | q/u | w/i | SALE PRICE | V.C. | PREVIOUS ASSESSMENTS (HISTORY) | | | | | |
|-------------------------|--|-------------|------------|-----|-----|------------|------|--------------------------------|------|----------------|------|------|----------------|
| O'BRIEN, MARY B | | 4853/ 303 | 04/01/1996 | Q | I | 310,000 | 00 | Yr. | Code | Assessed Value | Yr. | Code | Assessed Value |
| BROCK, DORLA S | | 4482/ 16 | 05/24/1994 | U | I | 1 | 1A | 2008 | 1010 | 289,200 | 2007 | 1010 | 289,200 |
| BROCK, THOMAS & DORLA S | | 1683/ 193 | 01/30/1973 | Q | V | 15,000 | 00 | 2008 | 1010 | 185,500 | 2007 | 1010 | 185,500 |
| ATKINS, HOWARD W | | 1160/ 319 | | | V | 0 | 00 | Total: 474,700 474,700 474,700 | | | | | |

| EXEMPTIONS | | | | OTHER ASSESSMENTS | | | |
|------------|------|----------------|--------|-------------------|-------------|--------|--------|
| Year | Type | Description | Amount | Code | Description | Number | Amount |
| 2008 | ER | OWNER OCCUPIED | 0 | | | | |
| Total: | | | 0 | | | | |

This signature acknowledges a visit by a Data Collector or Assessor

| ASSESSING NEIGHBORHOOD | | | |
|------------------------|-----------|-------------------|---------|
| NBHD/ SUB | NBHD NAME | STREET INDEX NAME | TRACING |
| AW/A | | | |

| APPRAISED VALUE SUMMARY | |
|----------------------------------|---------|
| Appraised Bldg. Value (Card) | 285,300 |
| Appraised XF (B) Value (Bldg) | 3,900 |
| Appraised OB (L) Value (Bldg) | 0 |
| Appraised Land Value (Bldg) | 185,500 |
| Special Land Value | 0 |
| Total Appraised Parcel Value | 474,700 |
| Valuation Method: | C |
| Adjustment: | 0 |
| Net Total Appraised Parcel Value | 474,700 |

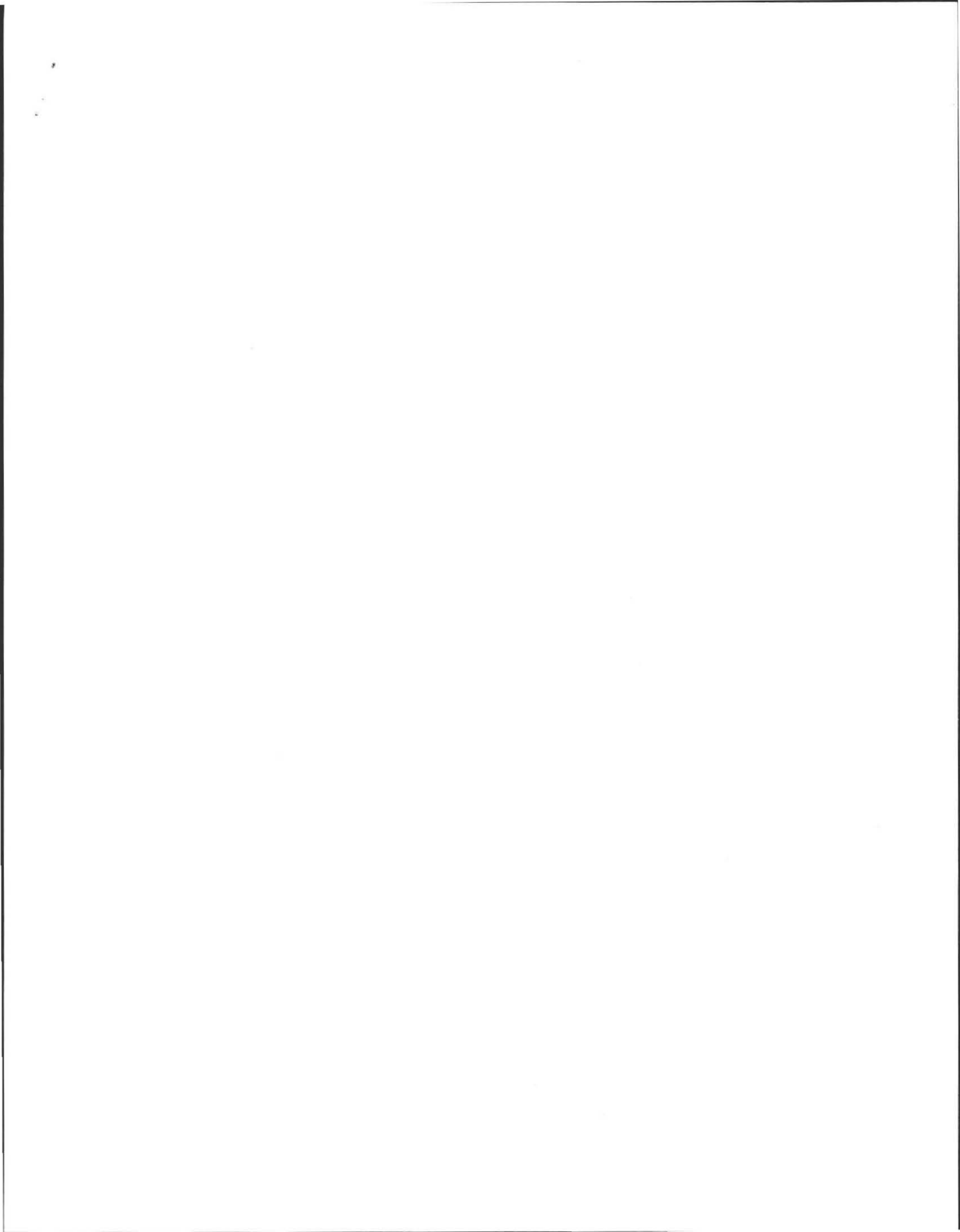
| NOTES | |
|--|--|
| LOT 9 W-O BASEMENT SOLAR HOT WATER 1983 SLOPE AND WETLANDS CONSIDERED CG BEDRM,BATHS,ADD FPLS, GRADE FY97 | NEW ROOF FY99 FY02 ADDED FUS, FSP, STP, & BTH CHG #BDRMS & BTH'S |

| BUILDING PERMIT RECORD | | | | | | |
|------------------------|------------|------|-------------|--------|------------|---------|
| Permit ID | Issue Date | Type | Description | Amount | Insp. Date | % Comp. |
| ELE01-18 | 07/17/2000 | EL | Electric | 0 | | 0 |
| PLM01-7 | 07/17/2000 | PL | Plumbing | 0 | | 0 |
| BLD00-653 | 05/25/2000 | RE | Remodel | 18,400 | | 0 |
| BLD97-741 | 06/17/1997 | RE | Remodel | 16,840 | | 0 |
| 831205 | 07/31/1983 | | | 4,300 | | 0 |

| VISIT/ CHANGE HISTORY | | | | | |
|-----------------------|------|----|----|-----|-------------------------|
| Date | Type | IS | ID | Cd. | Purpose/Result |
| 5/29/2003 | | | DB | 43 | Abatement chg Reinspect |
| 7/3/2001 | | | LT | 03 | Building Permit Review |
| 10/22/1997 | | | EB | 03 | Building Permit Review |
| 7/1/1996 | | | EB | | |
| 5/17/1990 | | | EB | | |

| LAND LINE VALUATION SECTION | | | | | | | | | | | | | |
|-----------------------------|----------|-------------------|------|---|----------|-------|-----------|------------|-----------|------|-----------|-----------|---------|
| B # | Use Code | Use Description | Zone | D | Frontage | Depth | Units | Unit Price | I. Factor | S.A. | Acre Disc | C. Factor | ST. Idx |
| 1 | 1010 | SINGLE FAM MDL-01 | RO30 | | 276 | | 30,000 SF | 3.80 | 1.45 | 8 | 1.0000 | 1.00 | AW |
| 1 | 1010 | SINGLE FAM MDL-01 | RO31 | | | | 57,120 SF | 0.18 | 1.00 | 0 | 1.0000 | 1.00 | AW |
| 1 | 1010 | SINGLE FAM MDL-01 | RO33 | | | | 8.25 AC | 8,000.00 | 1.00 | 0 | 0.5000 | 0.30 | AW |

Total Card Land Units: 10.25 AC Parcel Total Land Area: 10.25 AC Total Land Value: 185,500



Property Location: 98 IDUNA LN
 Vision ID: 4794

MAP ID: 24B/158/1

Bldg Name:

State Use: 1010
 Print Date: 02/18/2008 17:07

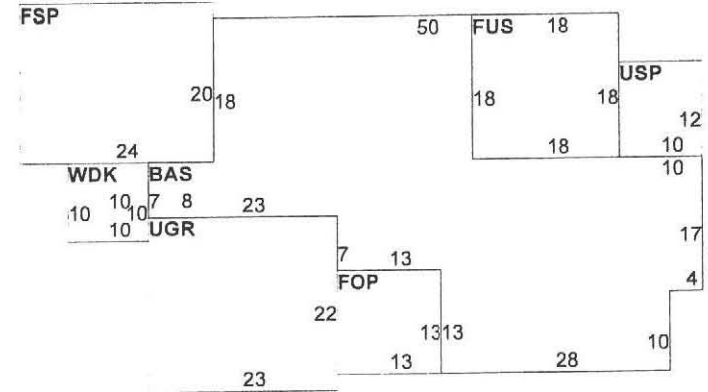
Account #

Bldg #: 1 of 1 Sec #: 1 of 1 Card 1 of 1

| CONSTRUCTION DETAIL | | | CONSTRUCTION DETAIL (CONTINUED) | | |
|---------------------|-----|-----------------|---------------------------------|-------------------|-----------------|
| Element | Cd. | Ch. Description | Element | Cd. | Ch. Description |
| Style | 15 | Contemporary | | | |
| Model | 01 | Residential | | | |
| Grade | 28 | Grade = 140% | | | |
| Stories | 1 | 1 Story | Foundation | | |
| Occupancy | 1 | | MIXED USE | | |
| Exterior Wall 1 | 08 | Wood on Sheath | Code | Description | Percentage |
| Exterior Wall 2 | | | 1010 | SINGLE FAM MDL-01 | 100 |
| Roof Structure | 03 | Gable/Hip | COST/MARKET VALUATION | | |
| Roof Cover | 04 | T&G/Rbr Mem | Adj. Base Rate: | 95.76 | |
| Interior Wall 1 | 05 | Drywall/Sheet | Section. RCN: | 324,148 | |
| Interior Wall 2 | | | Net Other Adj: | 0.00 | |
| Interior Flr 1 | 14 | Carpet | Replace Cost | 324,148 | |
| Interior Flr 2 | | | AYB | 1973 | |
| Heat Fuel | 02 | Oil | EYB | 1993 | |
| Heat Type | 04 | Forced Air-Duc | Dep Code | GD | |
| AC Type | 01 | None | Remodel Rating | | |
| Total Bedrooms | 04 | 4 Bedrooms | Year Remodeled | | |
| Total Bthrms | 4 | | Dep % | 12 | |
| Total Half Baths | 0 | | Functional Obslnc | 0 | |
| Total Xtra Fixtrs | | | External Obslnc | 0 | |
| Total Rooms | 7 | 7 Rooms | Cost Trend Factor | 1 | |
| Bath Style | 02 | Average | Condition | | |
| Kitchen Style | 02 | Modern | % Complete | 88 | |
| | | | Overall % Cond | 88 | |
| | | | Apprais Val | 285,300 | |
| | | | Dep % Ovr | 0 | |
| | | | Dep Ovr Comment | | |
| | | | Misc Imp Ovr | 0 | |
| | | | Misc Imp Ovr Comment | | |
| | | | Cost to Cure Ovr | 0 | |
| | | | Cost to Cure Ovr Comment | | |

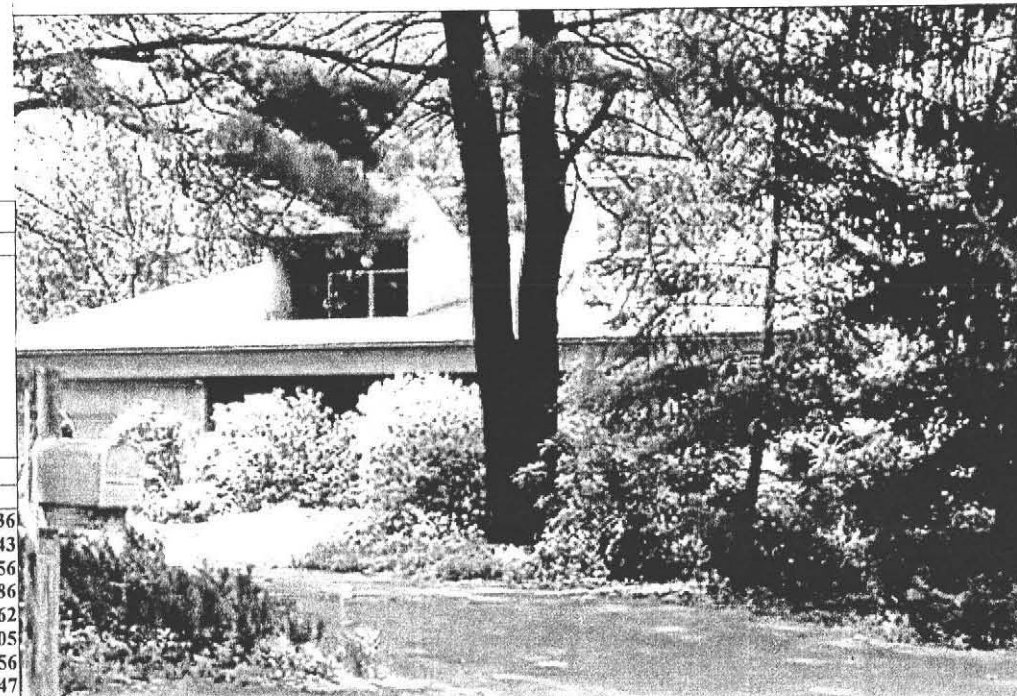
FBM[1250]

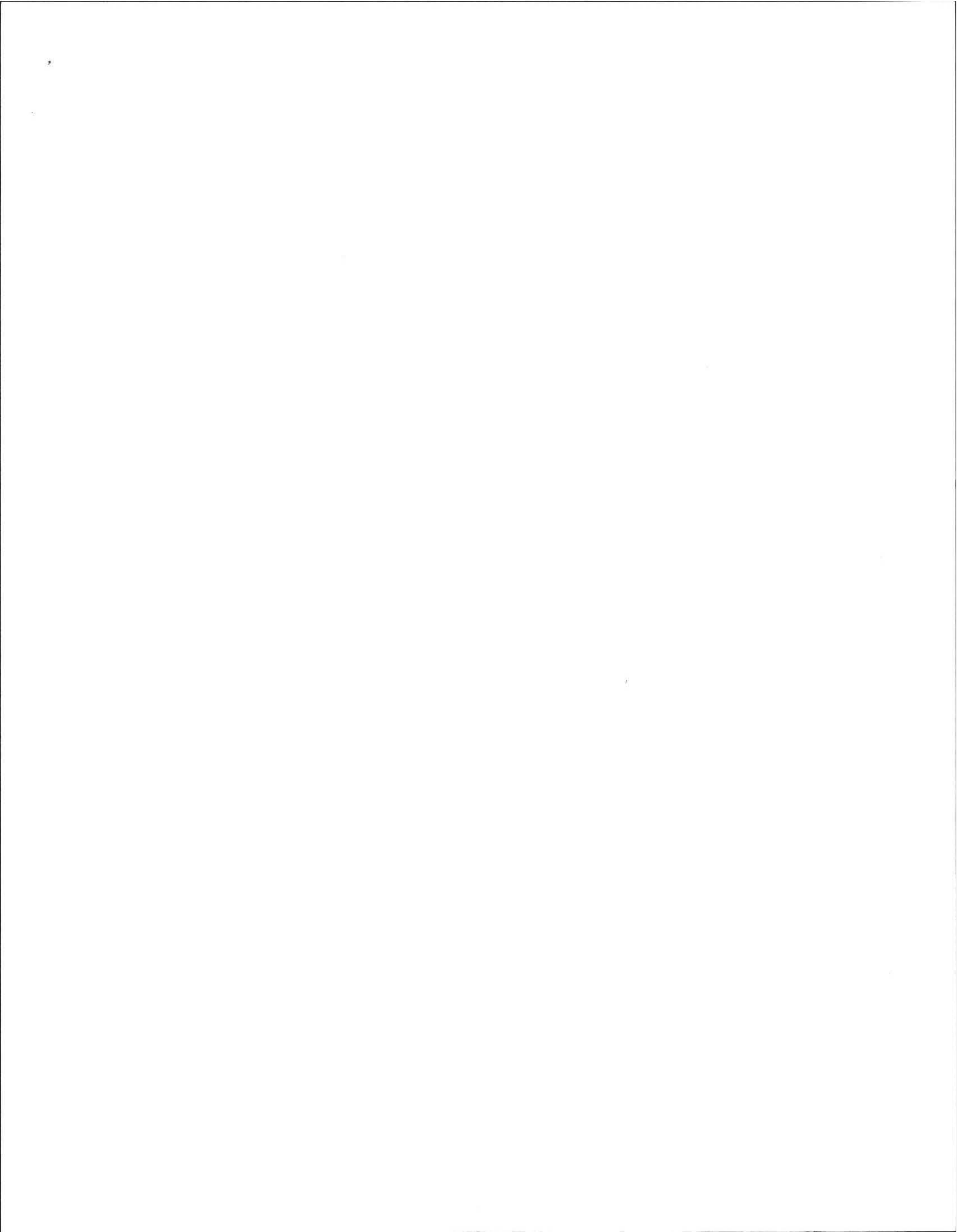
UBM[818]



| OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B) | | | | | | | | | | | | |
|--|--------------|-----|--------------|-----|-------|------------|------|-----|-------|-----|------|-----------|
| Code | Description | Sub | Sub Descript | L/B | Units | Unit Price | Yr | Gde | Dp Rt | Cnd | %Cnd | Apr Value |
| FPL1 | FIREPLACE 1 | | | B | 1 | 3,000.00 | 1993 | | 1 | | 100 | 2,600 |
| FPO | EXTRA FPL OI | | | B | 1 | 1,500.00 | 1993 | | 1 | | 100 | 1,300 |

| BUILDING SUB-AREA SUMMARY SECTION | | | | | | |
|-----------------------------------|---------------------------|-------------|------------|-----------|-----------|-----------------|
| Code | Description | Living Area | Gross Area | Eff. Area | Unit Cost | Undeprec. Value |
| BAS | First Floor | 2,067 | 2,067 | 2,067 | 95.76 | 197,936 |
| FBM | Basement, Finished | 0 | 1,250 | 438 | 33.55 | 41,943 |
| FOP | Porch, Open, Finished | 0 | 169 | 34 | 19.27 | 3,256 |
| FSP | Porch, Screen, Finished | 0 | 480 | 192 | 38.30 | 18,386 |
| FUS | Upper Story, Finished | 292 | 324 | 292 | 86.30 | 27,962 |
| UBM | Basement, Unfinished | 0 | 818 | 164 | 19.20 | 15,705 |
| UGR | Garage, Unfinished | 0 | 506 | 152 | 28.77 | 14,556 |
| USP | Porch, Screen, Unfinished | 0 | 120 | 36 | 28.73 | 3,447 |







- Trails
- Rail Lines
- Elevation Contours
- Intermediate Contour
- Intermediate Contour
- Depression - Index
- Depression - Intermediate
- Obscured - Index
- Obscured - Intermediate
- Obscured Depression - Index
- Obscured Depression - Int
- Elevation Model
- High : 1,258.98'
- Low : 128.56'
- Miscellaneous Lines
- Transportation
- Pavement
- Unpaved Road
- Tree Cover

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet

Planimetric basemap features compiled at 1"=40' and 1"=100' scale from April, 1998 Aerial Photography, Aerial Photography: April, 2004. Parcels compiled through a "best-fit" methodology to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes.

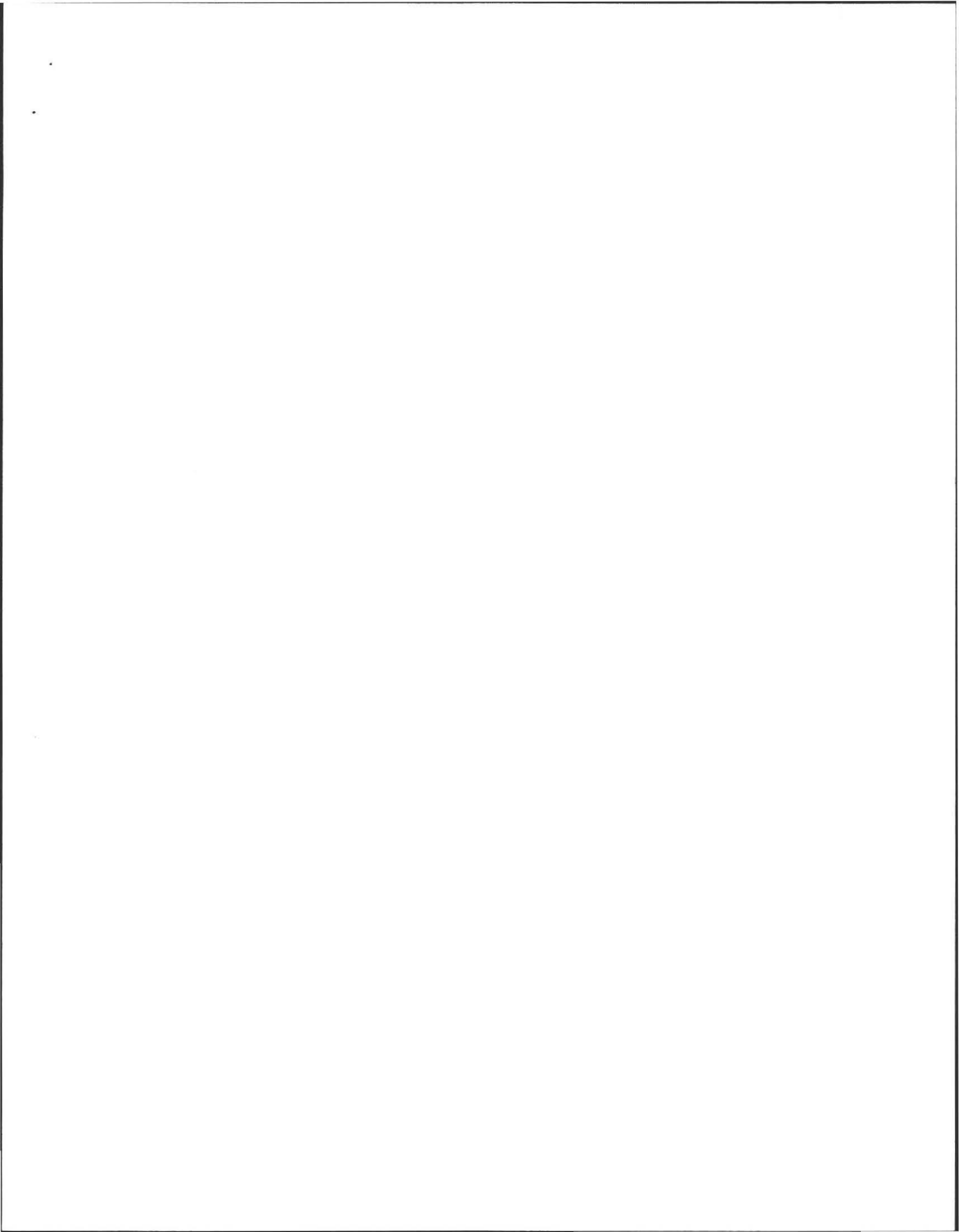
THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.

1" = 100 ft



Amherst GIS Viewer June 27, 2008







- Trails
- Rail Lines
- Elevations
- Elevation Contours
 - Index Contour
 - Intermediate Contour
 - Depression - Index
 - Depression - Intermediate
 - Obscured - Index
 - Obscured - Intermediate
 - Obscured Depression - Index
 - Obscured Depression - Int
- Elevation Model
 - High : 1,258.99'
 - Low : 128.56'
- Miscellaneous Lines
- Transportation
 - Pavement
 - Unpaved Road
 - Tree Cover

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet

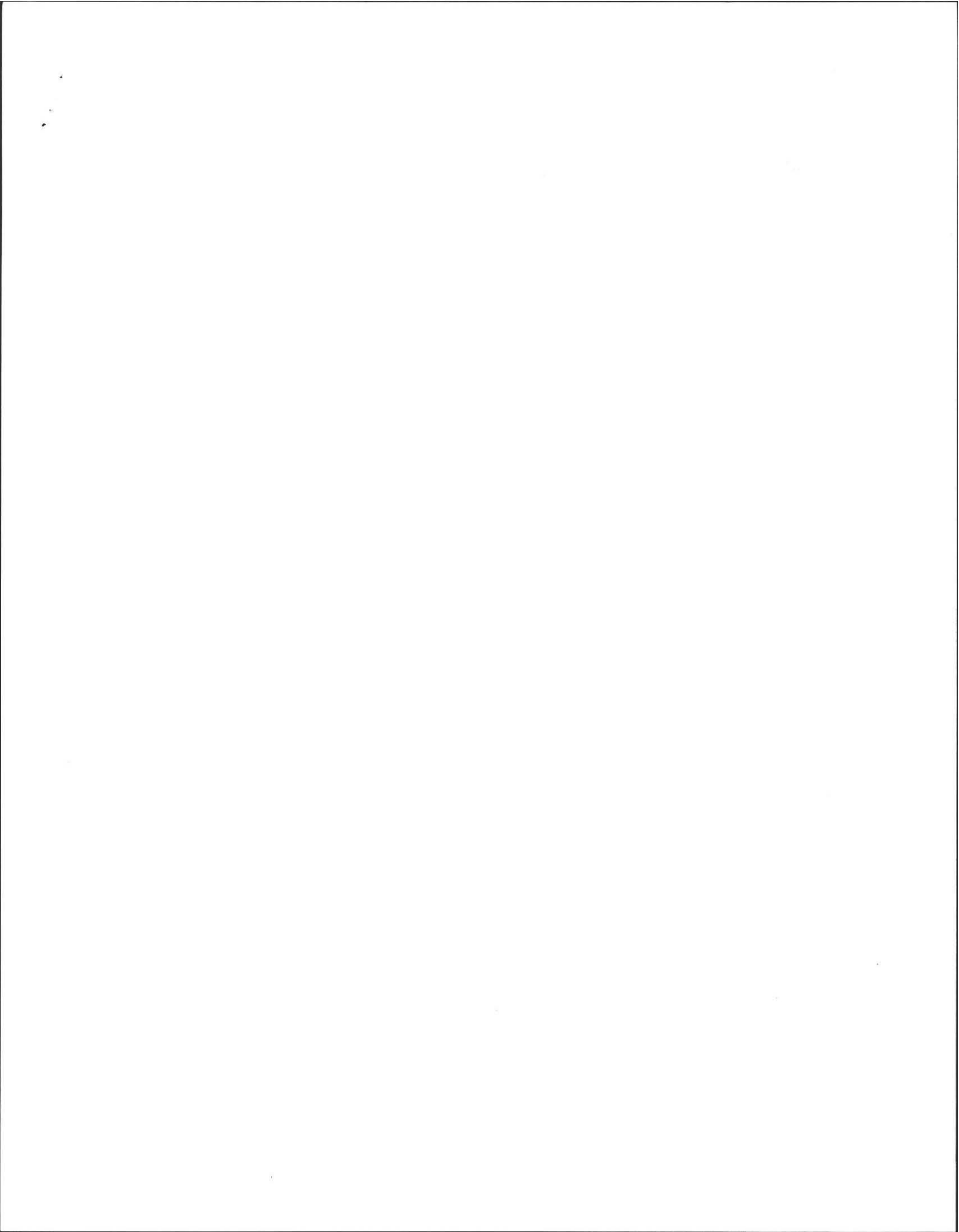
Planimetric basemap features compiled at 1"=40' and 1"=100' scale from April, 1999 Aerial Photography. Aerial Photography: April, 2004. Parcels compiled through a "best-fit" methodology to match the basemap; revisions are ongoing.

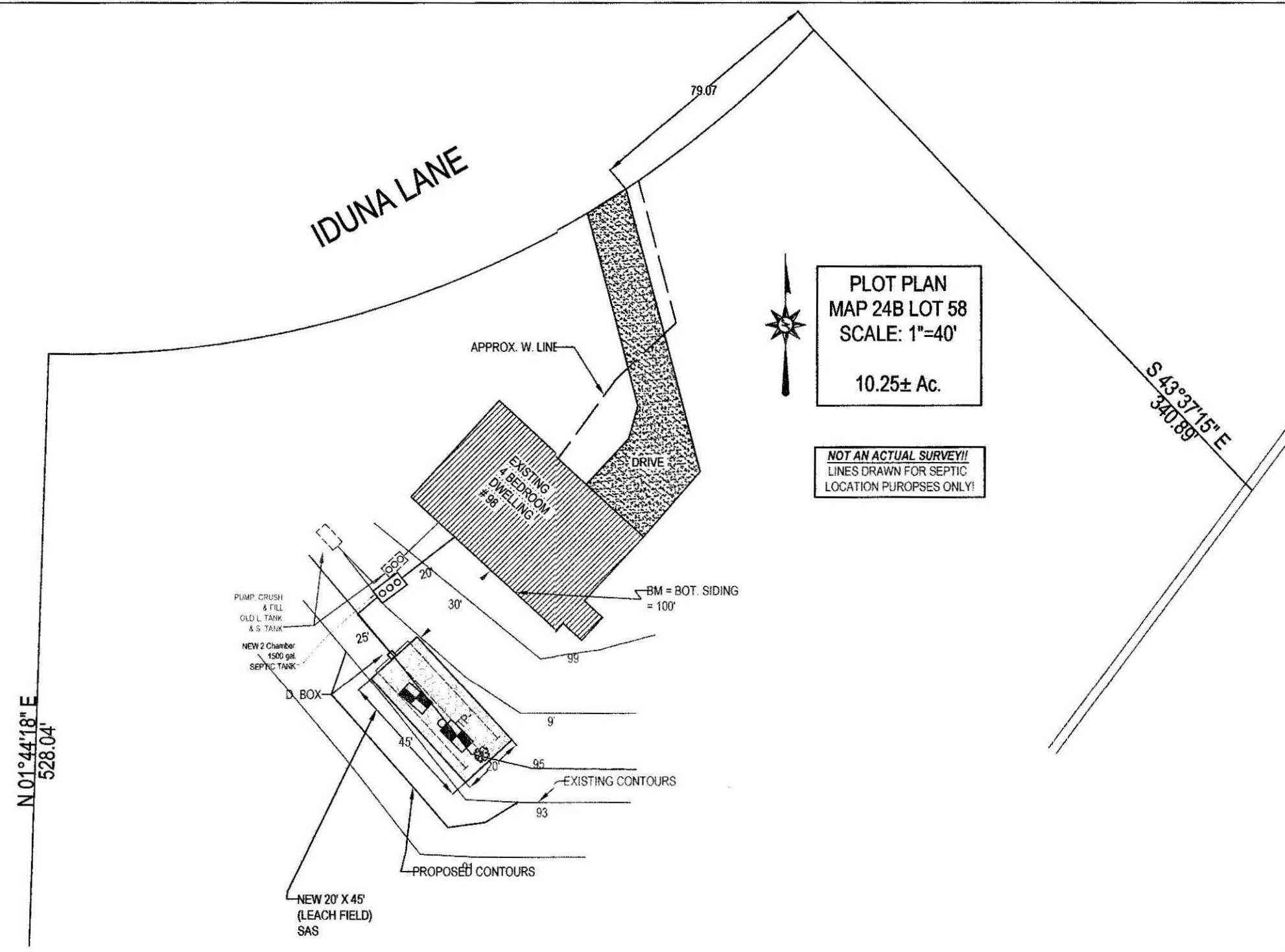
The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes.

THE TOWN OF AMHERST MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY, COMPLETENESS, RELIABILITY, OR SUITABILITY OF THESE DATA. THE TOWN OF AMHERST DOES NOT ASSUME ANY LIABILITY ASSOCIATED WITH THE USE OR MISUSE OF THIS INFORMATION.

1" = 300 ft

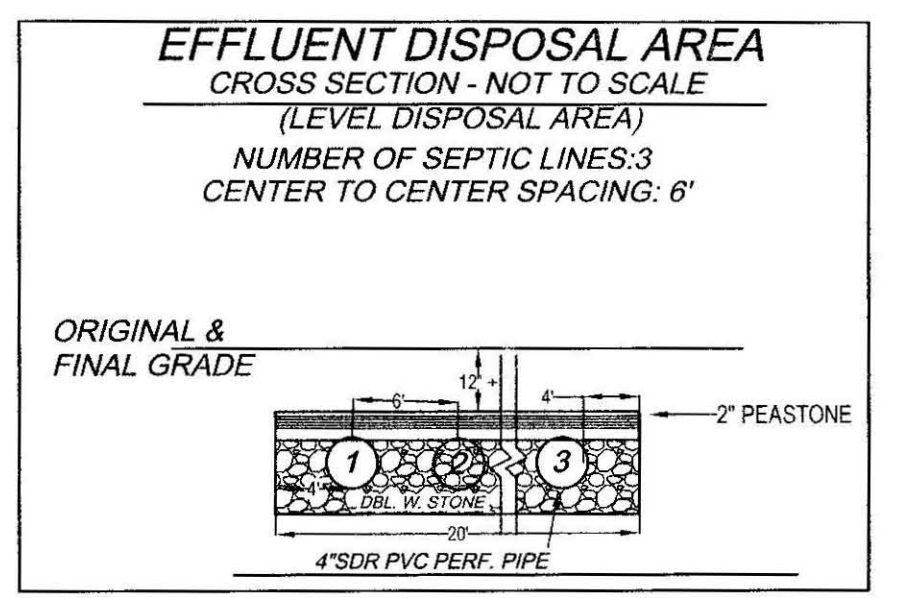
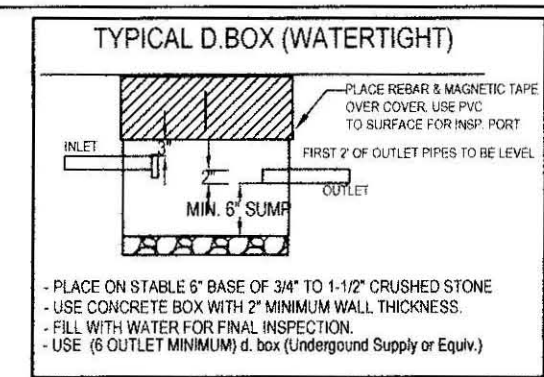






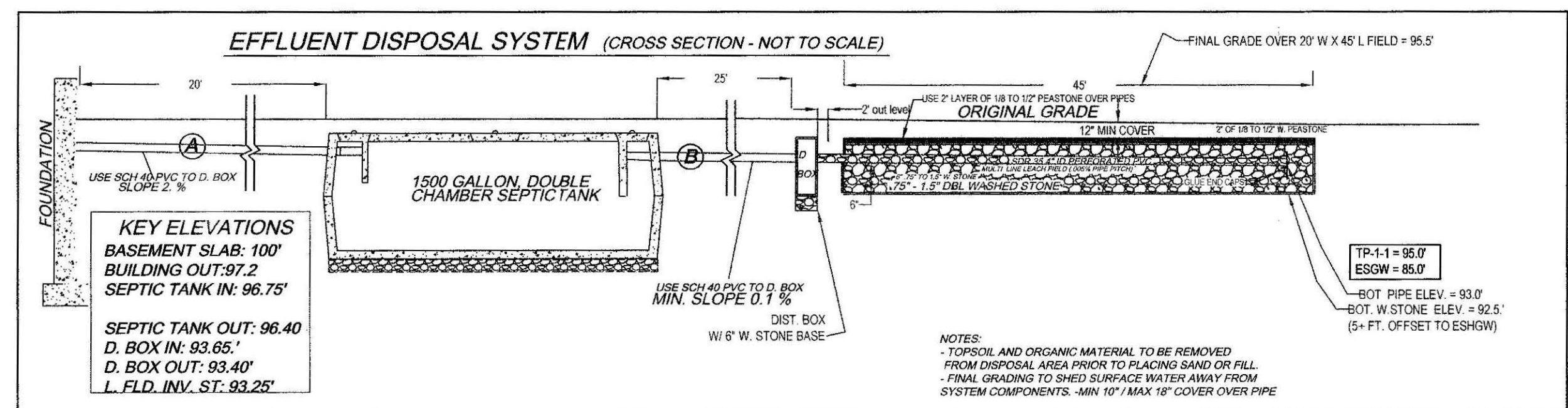
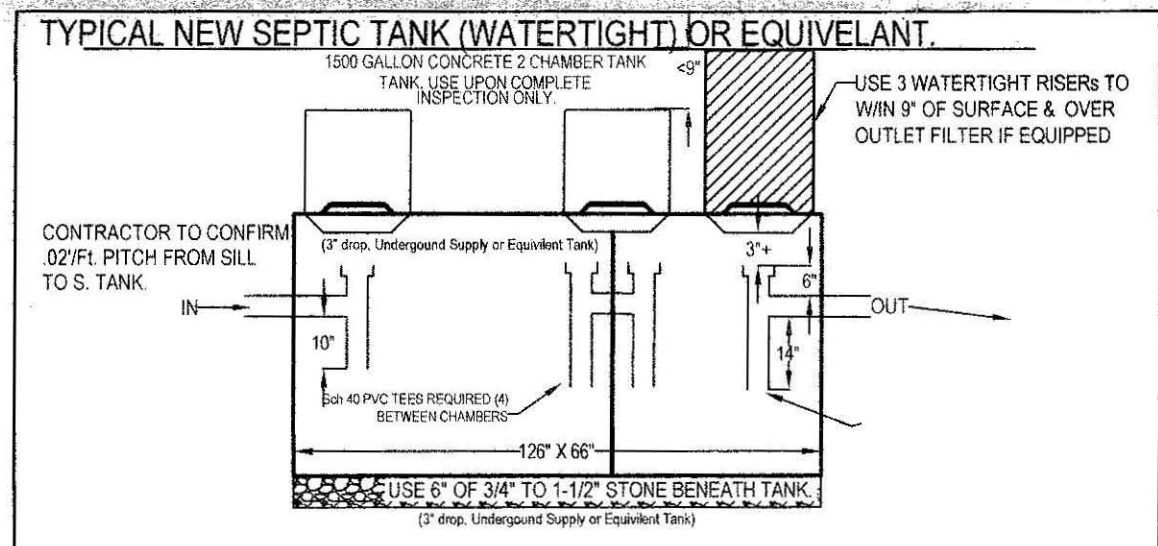
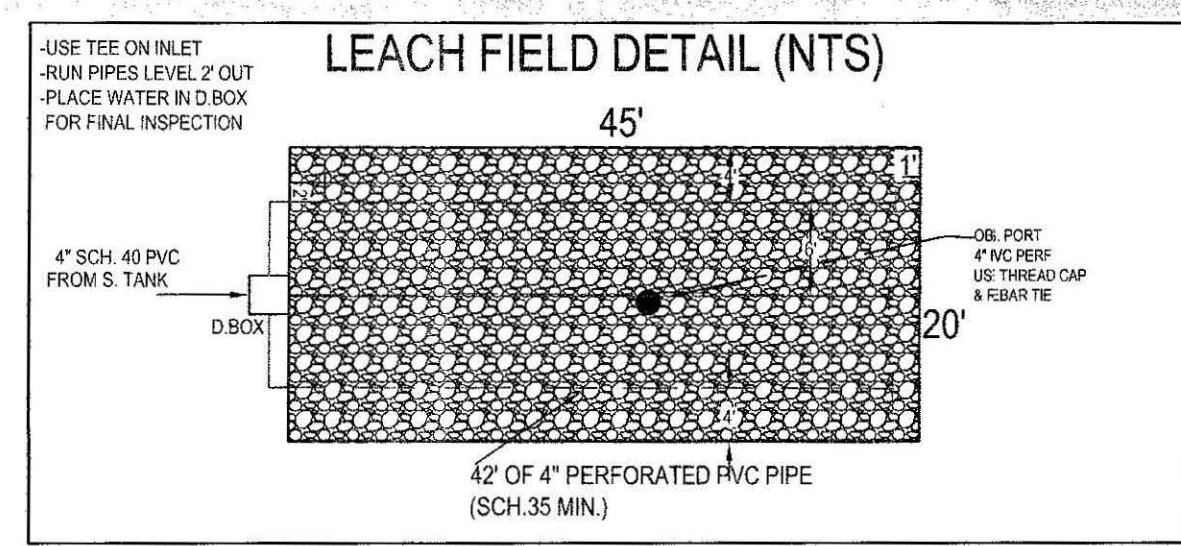
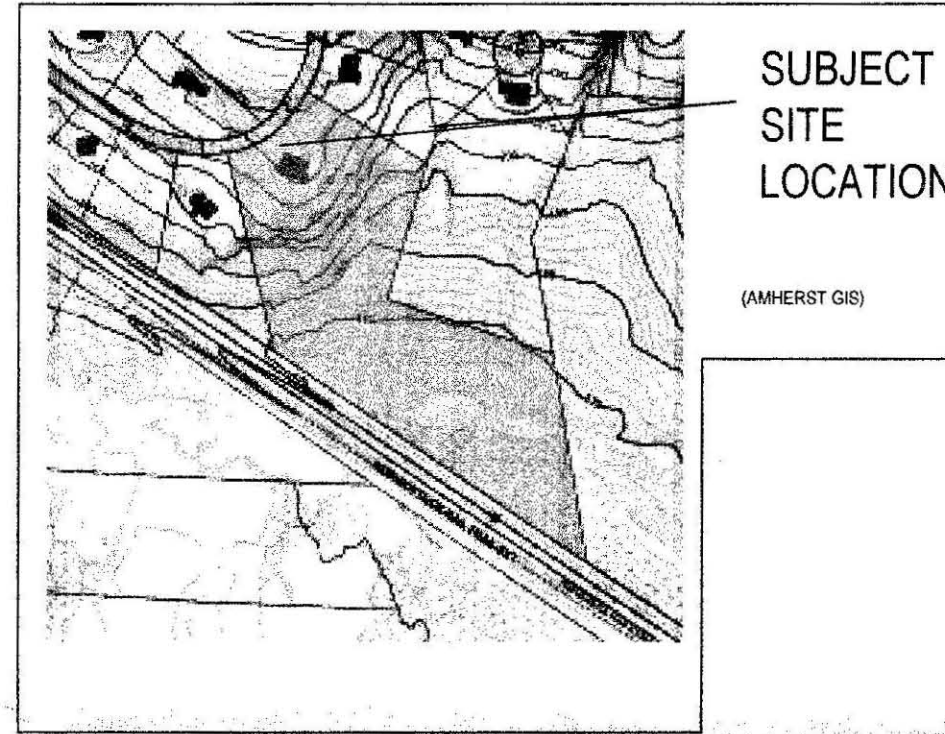
GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

- 1.) HAVE TANK PUMPED EVERY 2 YEARS.
- 2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
- 3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
- 4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
- 5.) CLEAN TANK OUTLET FILTER ANNUALLY IF PRESENT



DESIGN NOTES AND CALCULATIONS:

- 1.) 4 BR (BEDROOM HOME) X 110 X 150% GPD /BR = 660 GPD. (REQUIRED 150% DESIGN FOR G. GRINDER)
- Use ONE FIELD: 20' WIDE X 45' LONG WITH 6" OF 3/4" TO 1-1/2" DBL WASHED STONE BELOW INVERT
- BOTTOM AREA: 20' W X 45' L = 900 SF.
- SIDE AREA: 0 SF.
- TOTAL AREA: 900 SF X 0.74 GAL/SF = 666 GPD
3. GARBAGE DISPOSAL ACCOMMODATED. USE DOUBLE CHAMBER S. TANK
4. NO OTHER PRIVATE WELLS WITHIN 100 FEET OF SAS (TOWN WATER).
5. NO OTHER WETLANDS WITHIN 100 FEET OF SAS.
6. USE NEW DOUBLE CHAMBER 1,500 GAL. S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET).
- NOTE:**
- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6+ OUTLET) D. BOX ONLY.
- 7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2" CONC. WALLS
- NOTE:**
- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.
8. USE APPROVED (1 1/2") DBL. WASHED STONE UNDER TANK & D. BOX FOR 6".
- CONFIRM STONE PROPERLY WASHED (WITH BUCKET / H2O TEST) PRIOR TO PLACEMENT.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY. RESERVE AREA NOTED REQUIRED.
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
14. USE 2% MIN. SLOPE OVER SAS
- CLEAR TOP AND SUB TO 28" MIN. AS NEEDED (INSPECTION REQUIRED).
- CLEAR PAST BASE OF B (MIN. 28") & SCARIFY UNDER BED PRIOR TO TITLE V SAND PLACEMENT.
- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
15. SOIL EVALUATION BY A. WEISS, RS. 6/27/08 (E. BOKINA, BOH AGENT).
- DEPTH OF PERC. 40"
- PERC RATE = <2 MIN / IN
- CLASS I SOIL RATING (C. SAND)
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD. USE TITLE V FILL 5' OUT.
17. ENGINEER (& TOWN IF REQUIRED) TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL
18. BM=100.00 @ (as noted), CONFIRM PROPER PIPE SLOPES
- USE INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER LEACHFIELD AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.

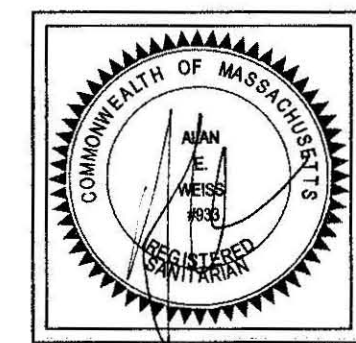


ATTENTION INSTALLER!!
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT REMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.

TEST PIT LOG:

| TP-1 EFF. ELEV: 95.0' | | | | TP-2 EFF. ELEV: | | | | | |
|----------------------------|--------|----------|------------------|-----------------------------------|---------|--------|----------|------------------|-----------------------------------|
| DEPTH: | HORIZ: | TEXTURE: | COLOR (MUNSELL): | MATERIAL: | DEPTH: | HORIZ: | TEXTURE: | COLOR (MUNSELL): | MATERIAL: |
| 0-10" | A | FSL | 10 YR 3/3 | FRIABLE | 0-6" | A | FSL | 10 YR 3/3 | FRIABLE |
| 10-28" | Bw | LS | 10 YR 5/6 | FRIABLE LOOSE | 6-26" | Bw | LS | 10 YR 5/6 | FRIABLE LOOSE |
| 28-120" | C1 | C. S. | 10 YR 4/3 | C. SAND + GRAVEL. LOOSE, GRANULAR | 26-120" | C1 | C. S. | 10 YR 4/3 | C. SAND + GRAVEL. LOOSE, GRANULAR |
| OXIDES: NOT OBSERVED | | | | OXIDES: NOT OBSERVED | | | | | |
| EHWT: 120" = 85.0' | | | | EHWT: 120" | | | | | |
| STANDING H2O: NOT OBSERVED | | | | STANDING H2O: NOT OBSERVED | | | | | |
| WEEPING: NOT OBSERVED | | | | WEEPING: NOT OBSERVED | | | | | |
| BEDROCK: 120"+ | | | | BEDROCK: 120"+ | | | | | |



SEPTIC SYSTEM REPAIR DESIGN PLAN FOR JOE BASS & MARY O'BRIEN
98 IDUNA LANE
AMHERST, MA.

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007

PROJ. NO.: (413) 323-5957
DATE: 7/14/08
SCALE: 1"=40'

REVISIONS:
DRAWN BY: ALAN WEISS
REVISED:
DRAWING NUMBER: 108-3001-0627