



# MANCHESTER-BY-THE-SEA

## BOARD OF HEALTH

TOWN HALL - 10 CENTRAL STREET

Manchester-by-the-Sea, Massachusetts 01944-1399

Telephone (978) 526-7385

FAX (978) 526-2009

June 12, 2024

Timothy and Kate Donovan  
516 Summer Street  
Manchester-by-the-Sea, MA 01944

### NOTIFICATION TO OWNER

Upon receipt of the Title 5 Inspection Report for the onsite sewage disposal system at:

Property Address: **516 SUMMER STREET, MANCHESTER-BY-THE-SEA**  
Property Owner: **KATE DONOVAN REVOCABLE TRUST and Kate & Timothy Donovan**

Licensed Title 5 Inspector: Jonathan James Granz SI# 13405

The Title 5 Inspection Report dated May 2, 2024, states the system **PASSES**.

#### NOTES:

- The septic tank was not pumped as part of the inspection.
- The water meter readings show usage averaged above the allowance of the 3-bedroom septic system. The inspection report notes "water usage is high due to assumed outdoor water usage".

The Board of Health DID NOT find the septic system, as it is now used, to constitute a danger to the public health and subsequently did not order its repair/replacement at this time.

Reviewing Board of Health Agent:

Wendy Hansbury RS, Public Health Director

THIS INSPECTION reflects the **present** condition of the sanitary disposal system and is not any guarantee as to the life or future condition of said system. A passing Title 5 Inspection Report with pump receipts for three years within each calendar year may be used for sale of property. (Explanation: If there is a potential that your home will be sold within three years, you **MUST** have the septic tank pumped once a year, within a year of the date of the approved Title 5 Inspection Report for each of the three years. This allows the sale to occur with the use of the pumping reports and annual receipts abates the need for a "Title 5 System Inspection" for a property transfer within three years of the passing inspection, otherwise a passing Title 5 Inspection Report is only good for two years.)



Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Jonathan J. Granz  
@gmail

Owner information  
is required for  
every page.

516 Summer Street

Property Address

Timothy & Kate Donovan

Owner's Name

Manchester by the Sea

MA

01938

5/2/24

City/Town

State

Zip Code

Date of Inspection

RECEIVED  
MAY 20 2024

BOARD OF HEALTH

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When  
filling out forms  
on the computer,  
use only the tab  
key to move your  
cursor - do not use  
the return key.



## A. Inspector Information

Jonathan J. Granz

Name of Inspector

Preventative Septic Services

Company Name

46 Beech Street

Company Address

South Hamilton

MA

01982

City/Town

State

Zip Code

978-468-9001

SI13405

Telephone Number

License Number

## B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

- ☒ Passes
- ☐ Conditionally Passes
- ☐ Needs Further Evaluation by the Local Approving Authority
- ☐ Fails

Inspector's Signature

5/16/24

Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.



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## C. Inspection Summary

Inspection Summary: Complete 1, 2, 3, or 5 and all of 4 and 6.

### 1) System Passes:

- ☒ I have not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

Comments:

System is working properly.

**\*\*The septic tank has a Zabel Effluent filter in the outlet tee, it should be cleaned atleast once a year.\*\***

### 2) System Conditionally Passes:

- ☐ One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

The septic tank is metal and over 20 years old\* **or** the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

\* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

☐ Y      ☐ N      ☐ ND (Explain below):



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## C. Inspection Summary (cont.)

### 2) System Conditionally Passes (cont.):

☐ Pump Chamber pumps/alarms not operational. System will pass with Board of Health approval if pumps/alarms are repaired.

☐ Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):

☐ broken pipe(s) are replaced ☐ Y ☐ N ☐ ND (Explain below):

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

☐ distribution box is leveled or replaced ☐ Y ☐ N ☐ ND (Explain below):

☐ The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

☐ broken pipe(s) are replaced ☐ Y ☐ N ☐ ND (Explain below):

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

### 3) Further Evaluation is Required by the Board of Health:

☐ Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.

**a. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:**



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## C. Inspection Summary (cont.)

- ☐ Cesspool or privy is within 50 feet of a surface water
- ☐ Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

**b. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:**

- ☐ The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
- ☐ The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
- ☐ The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
- ☐ The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well\*\*.

Method used to determine distance: \_\_\_\_\_

\*\* This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

c. Other:

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## 4) System Failure Criteria Applicable to All Systems:

You must indicate "Yes" or "No" to each of the following for all inspections:

Yes      No

☐☒

Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool

☐☒

Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool



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## C. Inspection Summary (cont.)

### 4) System Failure Criteria Applicable to All Systems: (cont.)

Yes No

☐ ☒

Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool

☐ ☒

Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow

☐ ☒Required pumping more than 4 times in the last year **NOT** due to clogged or obstructed pipe(s). Number of times pumped: \_\_\_\_\_.☐ ☒

Any portion of the SAS, cesspool or privy is below high ground water elevation.

☐ ☒

Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.

☐ ☒

Any portion of a cesspool or privy is within a Zone 1 of a public water supply well.

☐ ☒

Any portion of a cesspool or privy is within 50 feet of a private water supply well.

☐ ☒

Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. **[This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]**

☐ ☒

The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd.

☐ ☒

**The system fails.** I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

### 5) Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section C.4.

Yes No

☐ ☐

the system is within 400 feet of a surface drinking water supply

☐ ☐

the system is within 200 feet of a tributary to a surface drinking water supply

☐ ☐

the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well



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## C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

### 6. You must indicate "yes" or "no" for each of the following for *all* inspections:

Yes No

- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Pumping information was provided by the owner, occupant, or Board of Health  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Were any of the system components pumped out in the previous two weeks?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Has the system received normal flows in the previous two week period?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Have large volumes of water been introduced to the system recently or as part of this inspection?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were as built plans of the system obtained and examined? (If they were not available note as N/A)  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the facility or dwelling inspected for signs of sewage back up?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the site inspected for signs of break out?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were all system components, excluding the SAS, located on site?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The <b>size and location of the Soil Absorption System (SAS)</b> on the site has been determined based on: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Existing information. For example, a plan at the Board of Health.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]   |



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## D. System Information

### 1. Residential Flow Conditions:

Number of bedrooms (design): 3 Number of bedrooms (actual): 3

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 330

Description:

System is composed of a 1500 gallon septic tank, pump chamber, distribution box and a 35'x13' leaching field.

Number of current residents: 2

Does residence have a garbage grinder? ☐ Yes ☒ No

Does residence have a water treatment unit? ☐ Yes ☒ No

If yes, discharges to:

Is laundry on a separate sewage system? (Include laundry system inspection information in this report.) ☐ Yes ☒ No

Laundry system inspected? N/A ☒ Yes ☐ No

Seasonal use? ☐ Yes ☒ No

Water meter readings, if available (last 2 years usage (gpd)): 797.08 GPD

Detail:

Water meter readings were provided by the Manchester water department, usage was averaged from 5/16/22-2/15/24, 640 days (see attached).

**\*\*Water usage is high due to assumed outdoor water usage.\*\***

Sump pump? ☒ Yes ☐ No

Last date of occupancy: Current  
Date





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## D. System Information (cont.)

### 2. Commercial/Industrial Flow Conditions:

Type of Establishment:

Design flow (based on 310 CMR 15.203):

Gallons per day (gpd)

Basis of design flow (seats/persons/sq.ft., etc.):

Grease trap present?

☐ Yes ☐ No

Water treatment unit present?

☐ Yes ☐ No

If yes, discharges to:

Industrial waste holding tank present?

☐ Yes ☐ No

Non-sanitary waste discharged to the Title 5 system?

☐ Yes ☐ No

Water meter readings, if available:

Last date of occupancy/use:

Date

Other (describe below):

### 3. Pumping Records:

Source of information:

Last pumped 1+/- years ago, per Homeowner.

Was system pumped as part of the inspection?

☐ Yes ☒ No

If yes, volume pumped:

gallons

How was quantity pumped determined?

Reason for pumping:



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## D. System Information (cont.)

### 4. Type of System:

- ☐ Septic tank, distribution box, soil absorption system
- ☐ Single cesspool
- ☐ Overflow cesspool
- ☐ Privy
- ☐ Shared system (yes or no) (if yes, attach previous inspection records, if any)
- ☐ Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract
- ☐ Tight tank. Attach a copy of the DEP approval.
- ☒ Other (describe):  
Septic tank, pump chamber, distribution box, soil absorption system.

Approximate age of all components, date installed (if known) and source of information:

The As-Built is dated 7/21/97, BOH records.

Were sewage odors detected when arriving at the site?

☐ Yes ☒ No

### 5. Building Sewer (locate on site plan):

Depth below grade:

24"

feet

Material of construction:

☒ cast iron

☒ 40 PVC

☐ other (explain):

Distance from private water supply well or suction line:

n/a

feet

Comments (on condition of joints, venting, evidence of leakage, etc.):

Building sewer shows no signs of leakage, backup, or any other problems. Constructed of PVC at tank, cast iron at foundation.



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## D. System Information (cont.)

### 6. Septic Tank (locate on site plan):

Depth below grade:

14"

feet

Material of construction:

☒ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain)

If tank is metal, list age:

years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate)

☐ Yes ☐ No

Dimensions:

10'L x 5'W x 4'D

Sludge depth:

7"

Distance from top of sludge to bottom of outlet tee or baffle

27"

Scum thickness

1"

Distance from top of scum to top of outlet tee or baffle

5"

Distance from bottom of scum to bottom of outlet tee or baffle

14"

How were dimensions determined?

Sludge Judge/tape measure

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

The 1500 gallon septic tank is in good condition, liquid level at outlet invert, tank is structually sound, no signs of leakage in or out. Inlet and outlet both have PVC tees in good condition, outlet tee has a Zabel filter (cleaned at time of inspection). Inlet and outlet covers are at grade. This tank does not require pumping at this time.



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## D. System Information (cont.)

### 7. Grease Trap (locate on site plan):

Depth below grade:

feet

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain):

Dimensions:

Scum thickness

Distance from top of scum to top of outlet tee or baffle

Distance from bottom of scum to bottom of outlet tee or baffle

Date of last pumping:

Date

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

### 8. Tight or Holding Tank (tank must be pumped at time of inspection) (locate on site plan):

Depth below grade:

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain):

Dimensions:

Capacity:

gallons

Design Flow:

gallons per day



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## D. System Information (cont.)

### 8. Tight or Holding Tank (cont.)

Alarm present:

☐ Yes ☐ No

Alarm level: \_\_\_\_\_

Alarm in working order: ☐ Yes ☐ No

Date of last pumping:

\_\_\_\_\_ Date

Comments (condition of alarm and float switches, etc.):

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\* Attach copy of current pumping contract (required). Is copy attached?

☐ Yes ☐ No

### 9. Distribution Box (if present must be opened) (locate on site plan):

Depth of liquid level above outlet invert

0"

Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.):

Distribution box is in good condition, level, structually sound and water tight, no solids carryover. Speed levels are present and adjusted properly. Outlet inverts are 15" below grade, the cover is 5" below grade.

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## D. System Information (cont.)

### 10. Pump Chamber (locate on site plan):

Pumps in working order:

☒ Yes

☐ No\*

Alarms in working order:

☒ Yes

☐ No\*

Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

The pump, floats and alarm were all found to function properly. Outlet cover is at grade.

\* If pumps or alarms are not in working order, system is a conditional pass.

### 11. Soil Absorption System (SAS) (locate on site plan, excavation not required):

If SAS not located, explain why:

Type:

☐

leaching pits

number:

☐

leaching chambers

number:

☐

leaching galleries

number:

☐

leaching trenches

number, length:

☒

leaching fields

number, dimensions:

1@ 35'x13'

☐

overflow cesspool

number:

☐

innovative/alternative system

Type/name of technology:



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## D. System Information (cont.)

### 11. Soil Absorption System (SAS) (cont.)

Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.):

Soil over system is dry and consistent with surrounding yard with no signs of ponding, breakout or abnormal vegetation. Leaching field was dosed from pump chamber at time of inspection it was observed to drain properly.

### 12. Cesspools (cesspool must be pumped as part of inspection) (locate on site plan):

Number and configuration

Depth – top of liquid to inlet invert

Depth of solids layer

Depth of scum layer

Dimensions of cesspool

Materials of construction

Indication of groundwater inflow

☐ Yes

☐ No

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



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## D. System Information (cont.)

13. **Privy** (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):





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## D. System Information (cont.)

### 14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

- ☐ hand-sketch in the area below  
☒ drawing attached separately



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## D. System Information (cont.)

### 15. Site Exam:

☒ Check Slope

☒ Surface water

☒ Check cellar

☒ Shallow wells

Estimated depth to high ground water:

59" below original grade.  
feet

Please indicate all methods used to determine the high ground water elevation:

☒ Obtained from system design plans on record

If checked, date of design plan reviewed:

11/11/96  
Date

☐ Observed site (abutting property/observation hole within 150 feet of SAS)

☒ Checked with local Board of Health - explain:

Soil data from design of system.

☐ Checked with local excavators, installers - (attach documentation)

☐ Accessed USGS database - explain:

You **must** describe how you established the high ground water elevation:

Soil testing was performed for the design of this system on 10/31/96 by Daniel B. Johnson, witnessed by John Jacobi, the ESHWT was found at 59" below grade (see BOH records). This system was designed/installed with a 4' separation from the ESHWT per Title 5 regulations.

**Before filing this Inspection Report, please see Report Completeness Checklist on next page.**



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## E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

☒ A. Inspector Information: Complete all fields in this section.

☒ B. Certification: Signed & Dated and 1, 2, 3, or 4 checked

☒ C. Inspection Summary:

1, 2, 3, or 5 completed as appropriate

4 (Failure Criteria) and 6 (Checklist) completed

☒ D. System Information:

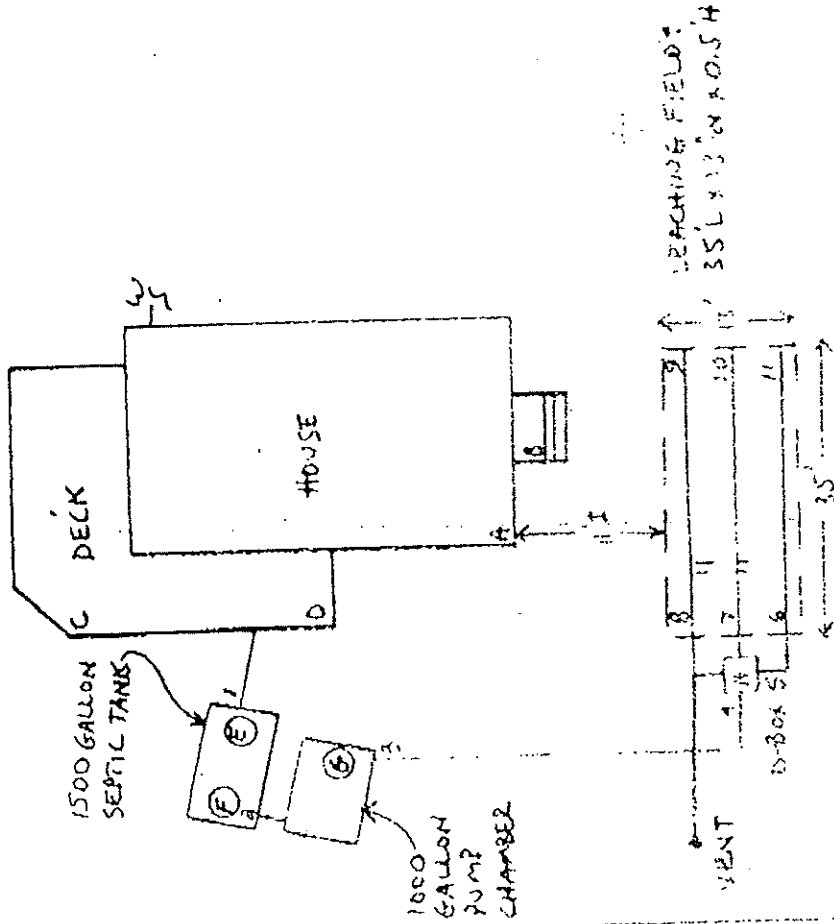
For 8: Tight/Holding Tank – Pumping contract attached

For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

For 15: Explanation of estimated depth to high groundwater included

# LEGEND

○ - COVERS AT GRADE



## DIMENSIONS TO SEPTIC COMPONENTS

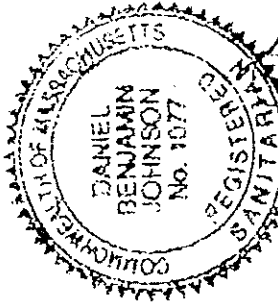
CE - 32' 6" CG - 39'  
 DE - 15' 4" DG - 11' 6"  
 CF - 32' 4" AH - 20' 8"  
 DF - 19' 8" BH - 28' 9"

### INVERTS OF PIPES

1 - 90.76 7 - 96.92  
 2 - 90.52 8 - 96.92  
 3 - 90.56 9 - 96.76  
 4 - 97.07 10 - 96.75  
 5 - 96.92 11 - 96.75  
 6 - 96.92

JUL 24 1997

SUMMER STREET



7/22/97

5/6 AS-BUILT OF SEPTIC SYSTEM  
 5/2 SUMMER STREET, MANCHESTER

SCALE: NONE

DATE: 7/21/97

APPROVED: DBJ

DANIEL B. JOHNSON - 300 FALMOUTH RD, 19B - MANHIEE

**Customer Transaction Summary****Customer Information**

Account No: 801819  
KATE DONOVAN REV TR  
516 SUMMER STREET  
MANCHESTER, MA 01944

**Location Information**

Location No: 1007900  
516 SUMMER STREET  
MANCHESTER, MA 01944

Date	Type	More Info	Reading	Usage	Prior Balance	Transaction Amount	Balance
03/14/2022	Payment	CHECK			208.54	-208.54	0.00
05/16/2022	Charge	04/05/2022	5838 <sup>100 G.P.</sup> 1	3000	0.00	201.43	201.43
06/21/2022	Payment	CHECK			201.43	-201.43	0.00
08/15/2022	Charge	07/14/2022	5915 1	7700	0.00	547.80	547.80
08/22/2022	Payment	CHECK			547.80	-547.80	0.00
11/15/2022	Charge	10/06/2022	6008 1	9300	0.00	691.23	691.23
11/29/2022	Payment	CHECK			691.23	-691.23	0.00
02/15/2023	Charge	01/05/2023	6055 1	4700	0.00	331.83	331.83
03/02/2023	Payment	CHECK			331.83	-331.83	0.00
05/15/2023	Charge	04/05/2023	6103 1	4800	0.00	339.15	339.15
06/01/2023	Payment	CHECK			339.15	-339.15	0.00
08/15/2023	Charge	07/06/2023	6327 1	22400	0.00	1773.64	1773.64
09/11/2023	Payment	CHECK			1773.64	-1773.64	0.00
11/15/2023	Charge	10/04/2023	6484 1	15700	0.00	1229.95	1229.95
12/04/2023	Payment	CHECK			1229.95	-1229.95	0.00
02/15/2024	Charge	01/11/2024	6520 1	3600	0.00	257.45	257.45
03/18/2024	Payment	CHECK			257.45	-257.45	0.00

5/16/22-2/15/24  
510,136 GAL. 640 DAYS, 797.08 GPD