

Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

23,25,27, Highfield Rd.

Property Address

Upham Farms Condominium

Owner's Name

Charlton

City/Town

MA

State

01507

Zip Code

1-19-2022

Date of Inspection

Owner information is required for every page.

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

Jeff D Helgerson

Name of Inspector

Jeff D Helgerson Excavating Inc.

Company Name

79 Bay Path Road

Company Address

Charlton

City/Town

508-248-7242

Telephone Number

MA

State

01507

Zip Code

SI3162

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:

- 1. [X] Passes
2. [] Conditionally Passes
3. [] Needs Further Evaluation by the Local Approving Authority
4. [] Fails

Inspector's Signature

1-31-2022
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:

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):



Commonwealth of Massachusetts

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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):

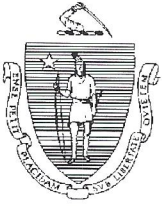
[] broken pipe(s) are replaced [] Y [] N [] ND (Explain below):

[] 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:

4) System Failure Criteria Applicable to All Systems:

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

- | Yes | No | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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 | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped: _____. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of the SAS, cesspool or privy is below high ground water elevation. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone 1 of a public water supply well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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.] |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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 | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 400 feet of a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 200 feet of a tributary to a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | 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
Pumping information was provided by the owner, occupant, or Board of Health
Were any of the system components pumped out in the previous two weeks?
Has the system received normal flows in the previous two week period?
Have large volumes of water been introduced to the system recently or as part of this inspection?
Were as built plans of the system obtained and examined? (If they were not available note as N/A)
Was the facility or dwelling inspected for signs of sewage back up?
Was the site inspected for signs of break out?
Were all system components, excluding the SAS, located on site?
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?
Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
Existing information. For example, a plan at the Board of Health.
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): 66 Number of bedrooms (actual): 24

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 7350gpd

Description:

Information taken from design plan

Number of current residents: unknown

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? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): 463gpd

Detail:

taken from Town of Southbridge Water consumption history report.

Sump pump? Yes No

Last date of occupancy: _____ current

Date



Commonwealth of Massachusetts

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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:

Pumping Company

Was system pumped as part of the inspection?

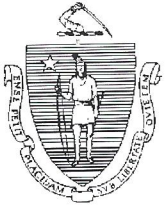
Yes No

If yes, volume pumped:

gallons

How was quantity pumped determined?

Reason for pumping:



Commonwealth of Massachusetts

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Property Address

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Date of Inspection

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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...
Tight tank. Attach a copy of the DEP approval.
Other (describe): With dosing chamber

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

1987 per design plan

Were sewage odors detected when arriving at the site?

Yes No

5. Building Sewer (locate on site plan):

Depth below grade:

Varies feet

Material of construction:

- cast iron 40 PVC other (explain):

Distance from private water supply well or suction line:

NA feet

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

Individual units connect to a common collection system. No defects observed.



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Zip Code

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Date of Inspection

D. System Information (cont.)

6. Septic Tank (locate on site plan):

Depth below grade:

Tank has C/I covers to grade feet

Material of construction:

[x] concrete

[] metal

[] fiberglass

[] polyethylene

[] other (explain)

Horizontal lines for additional information

If tank is metal, list age:

years

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

[] Yes [] No

Dimensions:

14'x8' 4000g

Sludge depth:

7"

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

40"

Scum thickness

6"

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

8"

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

16"

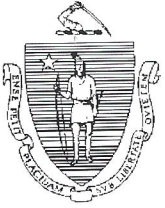
How were dimensions determined?

Measured

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

Baffles observed in tact, liquid levels normal. Tank is pumped annually. Some microbial corrosion observed, tank appears sound.

Horizontal lines for additional comments



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1-19-2022
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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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Property Address

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State

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Zip Code

1-19-2022

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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.):

* 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.):

2-"D" boxes. Both appear normal without any defects noted. Both have C/I covers to grade.



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Property Address

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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.):

* 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: 14-100' long ea.

leaching fields number, dimensions: _____

overflow cesspool number: _____

innovative/alternative system

Type/name of technology: _____



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Property Address

Upham Farms Condominium

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1-19-2022

City/Town

State

Zip Code

Date of Inspection

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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.):

Area over leaching fields is maintained, no abnormal vegetation or defects noted.

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.):



Commonwealth of Massachusetts

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Upham Farms Condominium

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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.):

Four horizontal lines for handwritten comments.



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Date of Inspection

City/Town

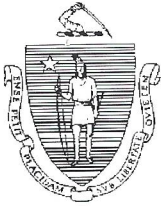
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D. System Information (cont.)

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: 7 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: 10-28-1996
Date

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

Checked with local Board of Health - explain:

Checked with local excavators, installers - (attach documentation)

Accessed USGS database - explain:

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

Taken from design plans. B.O.H. file #85-368 to 85-375 and 85-467 to 86-470

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

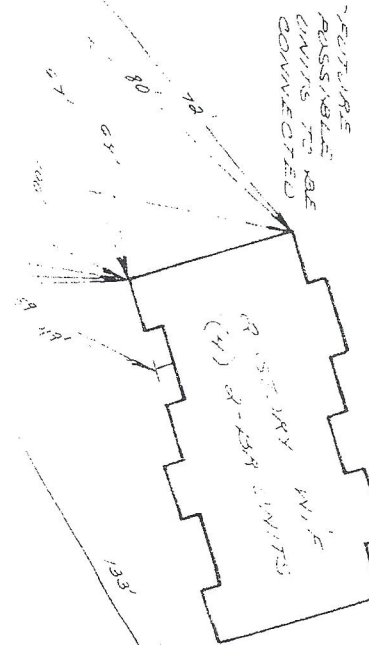
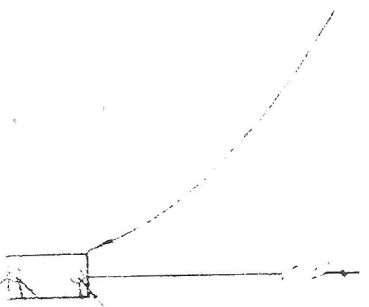
For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

For 15: Explanation of estimated depth to high groundwater included

STING B. 200 314.20V
NO. 2111*

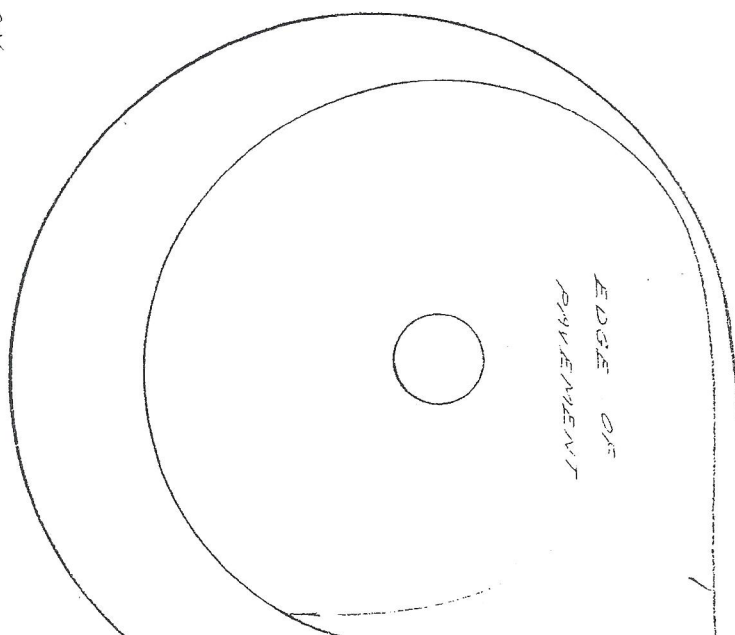
ET RIM ELEV. = 806.09
ET INVERT ELEV. = 807.01
LET RIM ELEV. = 805.00
LET INVERT ELEV. = 800.85 813.49
OF TRUNK (INSIDE) ELEV. = 813.49
UNITS ARE PRESENTLY CONNECTED
TO THE 8" 200 GAL. SEPTIC TANK.

FEEDERS
POSSIBLE
UNITS TO BE
CONNECTED

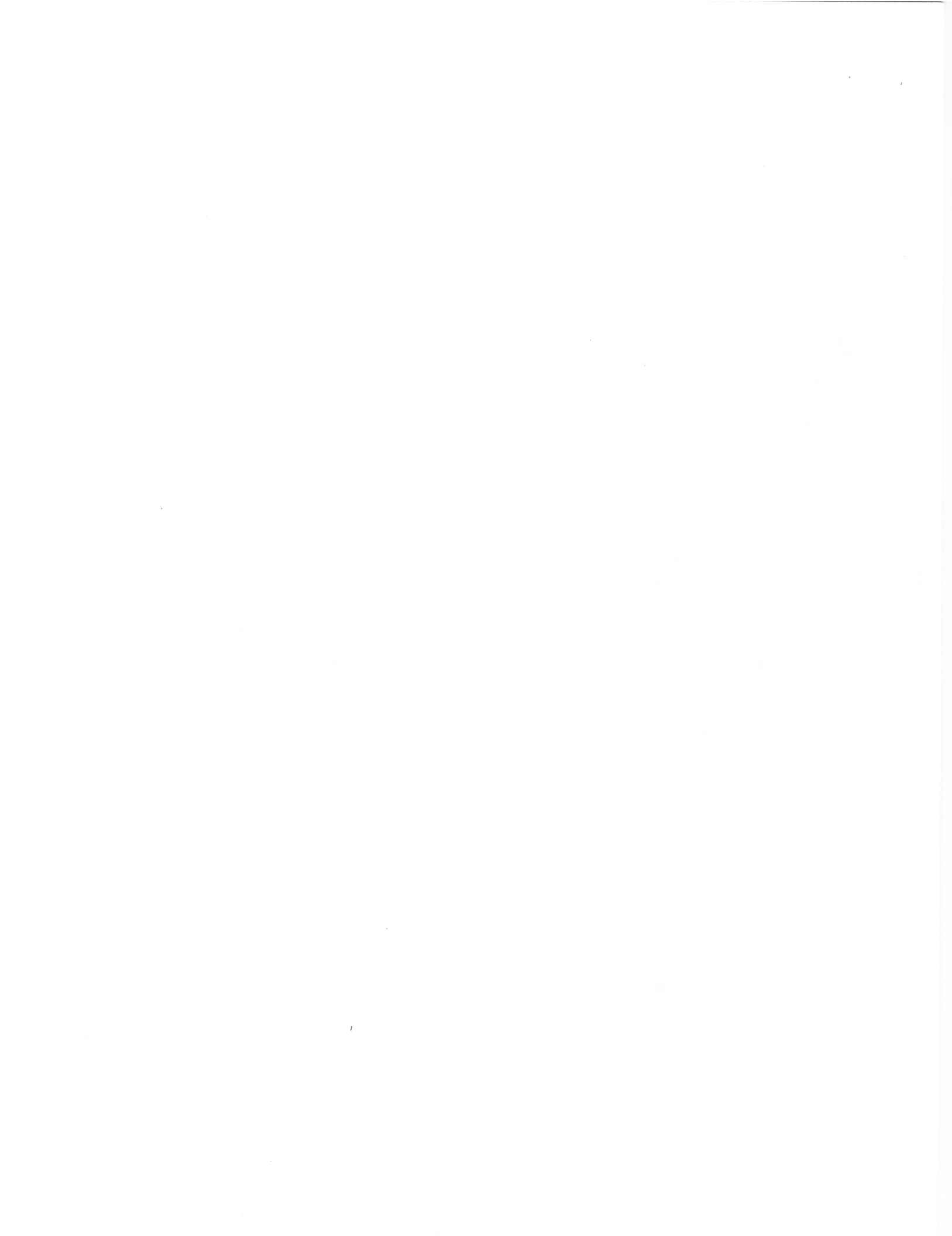


PHASE I
(12 UNITS)

EXISTING
WELL



HIGHLAND ROAD



NOTES:

1. CONSTRUCTION COMPLETED IN ACCORDANCE WITH
 SETTING DESIGN PLAN PREPARED BY COX
 ENGINEERING. FOUNDATION AND DRYED IN NO. 86,
 REVISIONS NO. 88, 96 AND 115 APPROVED BY THE
 COMMISSION BOARD OF HEALTH.
 BOARD PERMIT NO. S 85-368, 85-369, 85-370, 85-371,
 85-372, 85-373, 85-374, 85-375, 86-167, 86-168,
 86-169 AND 86-170.

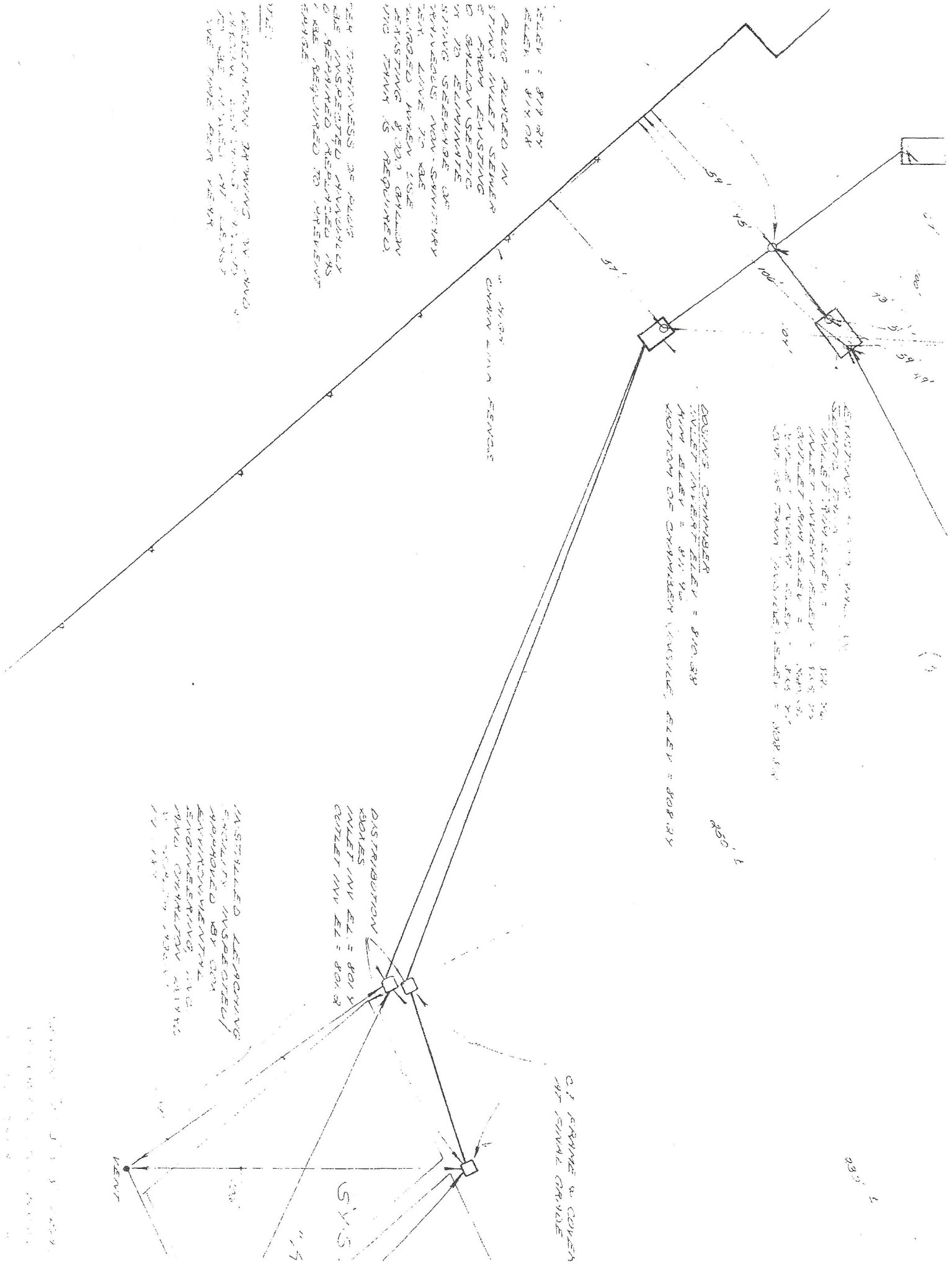
2. INSTALLED SYSTEM WAS KEELY INSPECTED BY
 RICHARD W. COX P.E., THE DESIGN ENGINEER, IN
 THE FOLLOWING DATES:

7/31/87 INSPECTED EXISTING INFRASTRUCTURE
 PRIOR TO REPLENISHMENT OF EXHAUST FLUE.
 8/1/87 APPROVED REVISION #5.

9/3/87 INSPECTED/APPROVED LEAKING INCIDENT
 FOR "SYSTEM C" ONLY COOK WAS
 PRESENT.

9/21/87 INSPECTED/ APPROVED LEAKING INCIDENT
 FOR "SYSTEM B" AND "SYSTEM A"
 ONLY COOK WAS PRESENT.

1/20/90 INSPECTED 8:30 AM BLDG IN SIGHT
 FROM 2ND FLOOR. NO LEAKS OBSERVED.
 1/21/90 INSPECTED 8:30 AM BLDG IN SIGHT



REPAIRS REQUIRED IN MAIN

REPAIRS REQUIRED IN BRANCH

REPAIRS REQUIRED IN SERVICE

MAY 1958

DRIVE CHAMBER
 INLET ELEV = 811.98
 OUTLET ELEV = 808.83
 MOTION OF CHAMBER UNKNOWN, ELEV = 808.83

DISTRIBUTION
 BOXES
 INLET INV EL. = 801.5
 OUTLET INV EL. = 801.8

WATER MAIN CROSSING

C.I. FRAME & COVER AT SIGNAL CROSS

REPAIRS REQUIRED IN MAIN

REPAIRS REQUIRED IN BRANCH

REPAIRS REQUIRED IN SERVICE

MAY 1958

REPAIRS REQUIRED IN MAIN

REPAIRS REQUIRED IN BRANCH

REPAIRS REQUIRED IN SERVICE

MAY 1958

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MAY 1958

REPAIRS REQUIRED IN MAIN

REPAIRS REQUIRED IN BRANCH

REPAIRS REQUIRED IN SERVICE

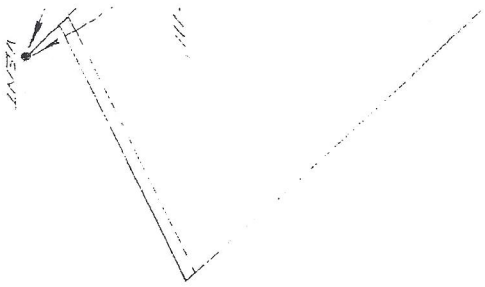
MAY 1958

REPAIRS REQUIRED IN MAIN

REPAIRS REQUIRED IN BRANCH

REPAIRS REQUIRED IN SERVICE

MAY 1958



3. AS-BUILT BUILDING FOUNDATIONS RETAINED FROM EXISTING FOUNDATIONS. EXISTING FOUNDATIONS TO REMAIN AS-BUILT.

4. AS-BUILT BUILDING FOUNDATIONS RETAINED FROM EXISTING FOUNDATIONS. EXISTING FOUNDATIONS TO REMAIN AS-BUILT.

5. AS-BUILT BUILDING FOUNDATIONS RETAINED FROM EXISTING FOUNDATIONS. EXISTING FOUNDATIONS TO REMAIN AS-BUILT.

6. AS-BUILT BUILDING FOUNDATIONS RETAINED FROM EXISTING FOUNDATIONS. EXISTING FOUNDATIONS TO REMAIN AS-BUILT.

REVISION NUMBER	DATE	BY
1		
2		
3		
4		
5		
6		

AS-BUILT CONDITIONS
 EXISTING SEPTIC SYSTEM "A"
UPHAM FARMS

PHASE I (12 2-BR Units)

COX Environmental
 Environmental Engineering & Construction
 10000 Old Highway 100, Suite 100
 Dallas, Texas 75243
 Phone: (214) 343-1111
 Fax: (214) 343-1112
 Website: www.coxenv.com

