

LETTER OF TRANSMITTAL

BLACKWELL & ASSOCIATES, INC.
Professional Civil Engineers & Land Surveyors
20 TEASDALE CIRCLE
NANTUCKET, MASSACHUSETTS 02554
(508) 228-9026 - Fax (508) 228-5292

DATE: November 14, 2014
ATTENTION: Jeff Carlson
RE: Baxter Road Layout
Notice of Intent
Between #85 & #106

Job No.: B7275

TO: Nantucket Conservation Commission
2 Bathing Beach Road
Nantucket, MA 02554
By Hand Delivery

WE ARE SENDING YOU:

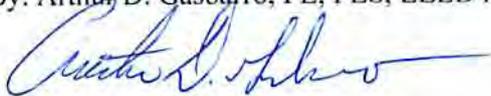
COPIES	DATE	DESCRIPTION
2	11/14/14	WPA FORM 3 -NOTICE OF INTENT APPLICATION WITH SUPPORTING MATERIALS INCLUDING: 1. Locus Maps – Town of Nantucket Web GIS & USGS Quad 2. Site Plan to Accompany a Notice of Intent 3. 2011 Town of Nantucket GIS Aerial Photograph 4. Abutter List, Notification Letter, Affidavit of Service and Certified Mail Receipts

THESE ARE TRANSMITTED as checked below:

For approval For your use As requested For review and comment

Please feel free to contact me with any questions or concerns regarding this matter.

Sincerely,
Blackwell & Associates, Inc.
By: Arthur D. Gasbarro, PE, PLS, LEED AP



COPY TO: MA Department of Environmental Protection – S.E.R.O.
C. Elizabeth Gibson, Town Manager
Kara Buzanowski, DPW Director

NOTICE OF INTENT APPLICATION

For

The Installation of Berms and Subsurface Stormwater Facilities

Within the Buffer Zone to
Bordering Vegetated Wetlands and
A Coastal Bank

Within

**BAXTER ROAD LAYOUT
BETWEEN #85 AND #106**

Nantucket, MA

November 2014

Prepared For

THE TOWN OF NANTUCKET

By

BLACKWELL & ASSOCIATES, Inc.
Professional Civil Engineers & Land Surveyors
20 Teasdale Circle
Nantucket, MA 02554
508-228-9026

Locus Map - 85-106 Baxter Road



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

The Town makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated July, 2014





Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Provided by MassDEP:

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
And the Town of Nantucket Wetlands Bylaw Chapter 136

MassDEP File Number

Document Transaction Number

NANTUCKET

City/Town

A. General Information



1. Project Location (Note: electronic filers will click on button to locate project site):

<u>Baxter Road Layout – Between #87 and #106</u>	<u>Nantucket</u>	<u>02554</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	<u>41d16'46"N</u>	<u>69d57'47"W</u>
	d. Latitude	e. Longitude
<u>Baxter Road Layout</u>		
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Town & County of Nantucket</u>	<u></u>	
a. First Name	b. Last Name	
c. Organization		
<u>16 Broad Street</u>		
d. Street Address		
<u>Nantucket</u>	<u>MA</u>	<u>02254</u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u></u>	<u></u>	
a. First Name	b. Last Name	
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Arthur D.</u>	<u>Gasbarro, PE, PLS, LEED AP</u>	
a. First Name	b. Last Name	
<u>Blackwell & Associates, Inc.</u>		
c. Company		
<u>20 Teasdale Circle</u>		
d. Street Address		
<u>Nantucket</u>	<u>MA</u>	<u>02554</u>
e. City/Town	f. State	g. Zip Code
<u>508-228-9026 x13</u>	<u>508-228-5292</u>	<u>art@blackwellsurvey.com</u>
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>Exempt</u>	<u></u>	<u></u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The Applicant proposes to install subsurface Stormwater drainage facilities within the layout of Baxter Road. Three systems are proposed consisting of two catchbasins connected to a water quality treatment device followed by infiltration chambers with deep penetration wells. The project is proposed within 100-feet of Vegetated Wetlands and a Coastal Bank. No work is proposed within 25-feet. Please refer to the attached Project Narrative and Site Plan for additional information.

7a. Project Type Checklist:

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation | 10. <input checked="" type="checkbox"/> Other |

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

NANTUCKET

a. County

Road Taking - 151

c. Book

b. Certificate # (if registered land)

224

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area

Size of Proposed Alteration

Proposed Replacement (if any)

- a. Bank

1. linear feet

2. linear feet

- b. Bordering Vegetated Wetland

1. square feet

2. square feet

- c. Land Under Waterbodies and Waterways

1. square feet

2. square feet

3. cubic yards dredged



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MassDEP File Number _____

Document Transaction Number _____

NANTUCKET

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	_____	_____
	1. square feet	2. square feet
	_____	_____
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	_____	
	1. square feet	

	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	_____	
	1. Name of Waterway (if available)	
	2. Width of Riverfront Area (check one):	
	<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only	
	<input type="checkbox"/> 100 ft. - New agricultural projects only	
	<input type="checkbox"/> 200 ft. - All other projects	
	3. Total area of Riverfront Area on the site of the proposed project: _____	
	square feet	
	4. Proposed alteration of the Riverfront Area:	
	_____	_____
	a. total square feet	b. square feet within 100 ft.
		c. square feet between 100 ft. and 200 ft.
	5. Has an alternatives analysis been done and is it attached to this NOI? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	6. Was the lot where the activity is proposed created prior to August 1, 1996? <input type="checkbox"/> Yes <input type="checkbox"/> No	

3. **Coastal Resource Areas: (See 310 CMR 10.25-10.35)**

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://www.mass.gov/dfw/e/le/dfw/nhesp/regulatory_review/priority_habitat/online_viewer.htm.

a. Yes No If yes, include proof of mailing or hand delivery of NOI to:

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
Route 135, North Drive
Westborough, MA 01581

10/1/08

b. Date of map



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MassDEP File Number _____

Document Transaction Number _____

NANTUCKET

City/Town

C. Other Applicable Standards and Requirements (cont'd)

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.d, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

1. c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area

_____ percentage/acreage

(b) outside Resource Area

_____ percentage/acreage

2. Assessor's Map or right-of-way plan of site

3. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work ****

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

(c) MESA filing fee (fee information available at: http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing.

_____ a. NHESP Tracking #

_____ b. Date submitted to NHESP

* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhosp/nhosp.htm>, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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NANTUCKET

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C. Other Applicable Standards and Requirements (cont'd)

- 3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

- 2. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. Not applicable – project is in inland resource area only

- b. Yes No If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- 3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.

b. ACEC

- 4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

- a. Yes No

- 5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

- a. Yes No

- 6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

- 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
- 2. A portion of the site constitutes redevelopment
- 3. Proprietary BMPs are included in the Stormwater Management System.

- b. No. Check why the project is exempt:

- 1. Single-family house

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



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MassDEP File Number

Document Transaction Number

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C. Other Applicable Standards and Requirements (cont'd)

- 2. Emergency road repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

Site Plan of Land to Accompany A Notice of Intent Application

a. Plan Title

Blackwell & Associates, Inc.

Arthur D. Gasbarro, PE, PLS, LEED AP

b. Prepared By

c. Signed and Stamped by

11/12/14

1"=30'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.



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E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant
3. Signature of Property Owner (if different)
5. Signature of Representative (if any)

2. Date
4. Date
6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Applicant:

a. First Name _____ b. Last Name _____
 Town and County of Nantucket _____
 c. Organization _____
 16 Broad Street _____
 d. Mailing Address _____
 Nantucket _____ MA _____ 02554 _____
 e. City/Town _____ f. State _____ g. Zip Code _____
 h. Phone Number _____ i. Fax Number _____ j. Email Address _____

2. Property Owner (if different):

a. First Name _____ b. Last Name _____
 c. Organization _____
 d. Mailing Address _____
 e. City/Town _____ f. State _____ g. Zip Code _____
 h. Phone Number _____ i. Fax Number _____ j. Email Address _____

3. Project Location:

Baxter Road Layout – Between #87 and #106 _____ Nantucket _____
 a. Street Address _____ b. City/Town _____

B. Fees

The fee should be calculated using the following six-step process and worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<u>Nantucket Wetland By-law Fee</u>	_____	_____	_____
<u>Nantucket Expert Review Fee</u>	_____	_____	_____
Step 5/Total Project Fee:			_____
Step 6/Fee Payments:			
Total Project Fee:			_____
			a. Total Fee from Step 5
State share of filing Fee:			_____
			b. 1/2 Total Fee less \$12.50
City/Town share of filling Fee:			_____
			c. 1/2 Total Fee plus \$12.50

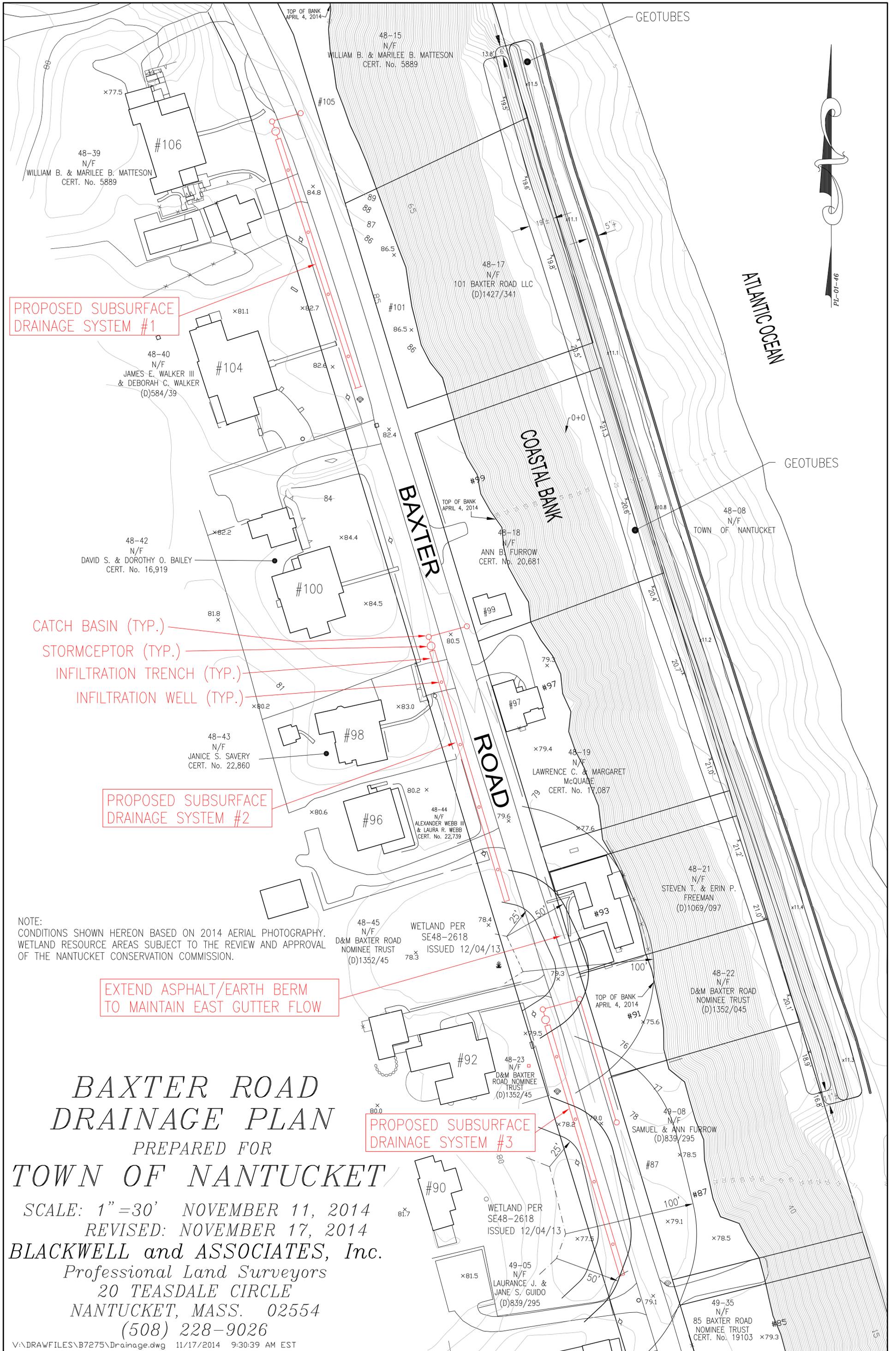
C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



PROPOSED SUBSURFACE DRAINAGE SYSTEM #1

PROPOSED SUBSURFACE DRAINAGE SYSTEM #2

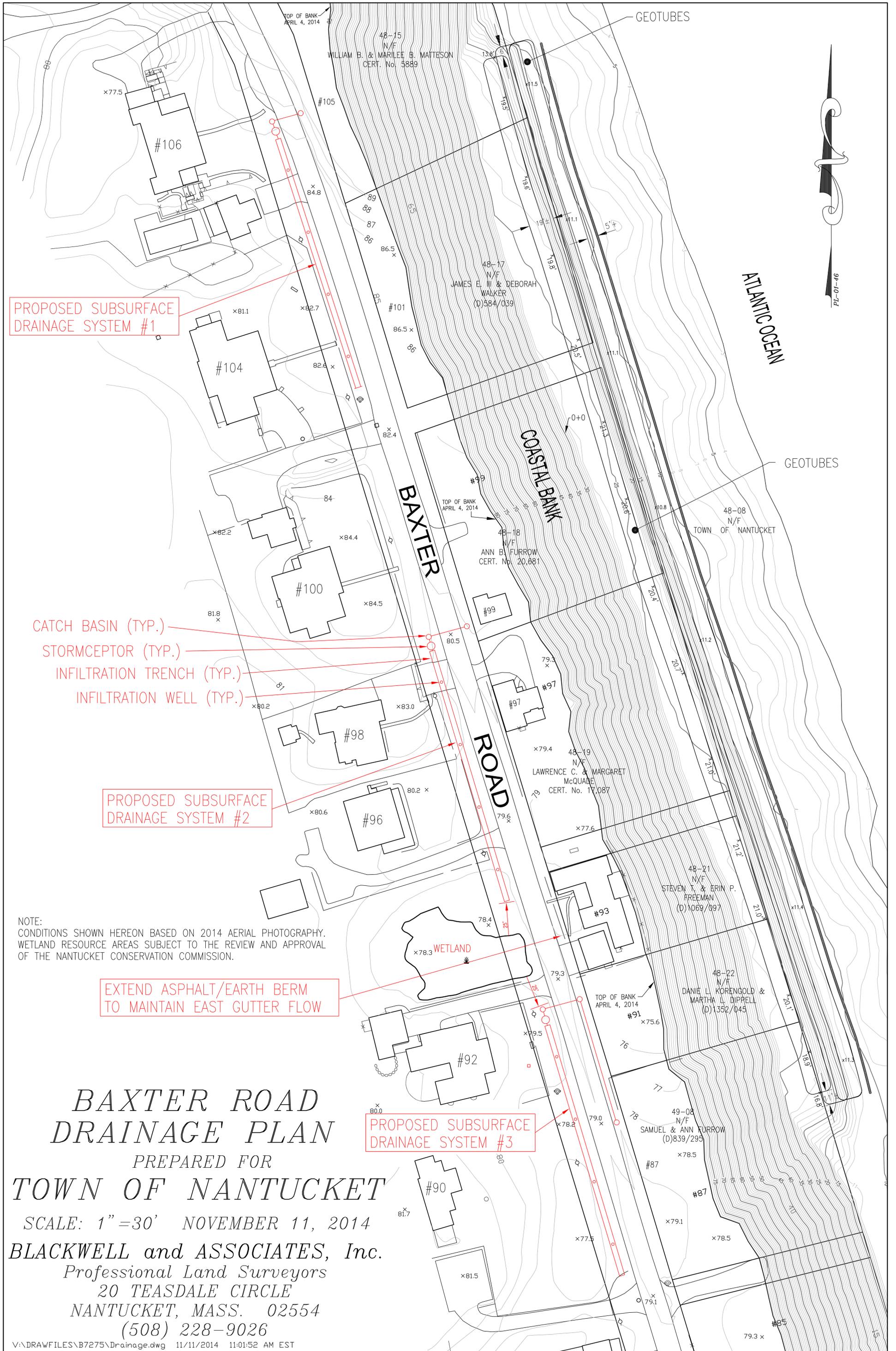
PROPOSED SUBSURFACE DRAINAGE SYSTEM #3

- CATCH BASIN (TYP.)
- STORMCEPTOR (TYP.)
- INFILTRATION TRENCH (TYP.)
- INFILTRATION WELL (TYP.)

EXTEND ASPHALT/EARTH BERM TO MAINTAIN EAST GUTTER FLOW

NOTE:
 CONDITIONS SHOWN HEREON BASED ON 2014 AERIAL PHOTOGRAPHY.
 WETLAND RESOURCE AREAS SUBJECT TO THE REVIEW AND APPROVAL
 OF THE NANTUCKET CONSERVATION COMMISSION.

BAXTER ROAD DRAINAGE PLAN
 PREPARED FOR
TOWN OF NANTUCKET
 SCALE: 1" = 30' NOVEMBER 11, 2014
 REVISED: NOVEMBER 17, 2014
BLACKWELL and ASSOCIATES, Inc.
 Professional Land Surveyors
 20 TEASDALE CIRCLE
 NANTUCKET, MASS. 02554
 (508) 228-9026



PROPOSED SUBSURFACE DRAINAGE SYSTEM #1

- CATCH BASIN (TYP.)
- STORMCEPTOR (TYP.)
- INFILTRATION TRENCH (TYP.)
- INFILTRATION WELL (TYP.)

PROPOSED SUBSURFACE DRAINAGE SYSTEM #2

NOTE:
 CONDITIONS SHOWN HEREON BASED ON 2014 AERIAL PHOTOGRAPHY.
 WETLAND RESOURCE AREAS SUBJECT TO THE REVIEW AND APPROVAL
 OF THE NANTUCKET CONSERVATION COMMISSION.

EXTEND ASPHALT/EARTH BERM
 TO MAINTAIN EAST GUTTER FLOW

PROPOSED SUBSURFACE DRAINAGE SYSTEM #3

**BAXTER ROAD
 DRAINAGE PLAN**
 PREPARED FOR
TOWN OF NANTUCKET
 SCALE: 1" = 30' NOVEMBER 11, 2014
BLACKWELL and ASSOCIATES, Inc.
 Professional Land Surveyors
 20 TEASDALE CIRCLE
 NANTUCKET, MASS. 02554
 (508) 228-9026

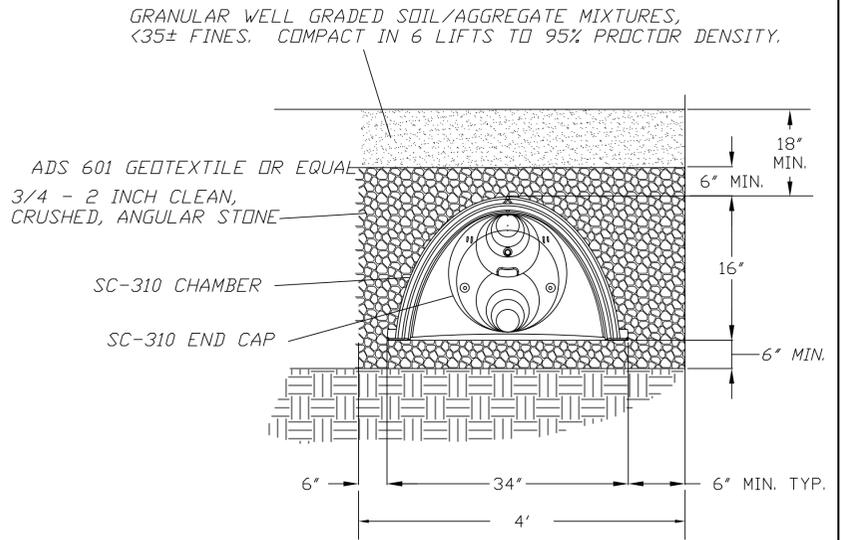
STORMTECH GENERAL NOTES

1. STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
2. OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
3. STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.
4. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
5. AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
7. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
8. THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
9. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
10. STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT WWW.STORMTECH.COM.

* NOTE: CHAMBER SYSTEM DESIGN MUST BE IN ACCORDANCE WITH STORMTECH DESIGN MANUAL



20 Beaver Road, Suite 104
Wethersfield, CT 06109
Phone: 888-892-2694
Fax: 866-328-8401
www.stormtech.com



TRENCH DETAIL
NOT TO SCALE

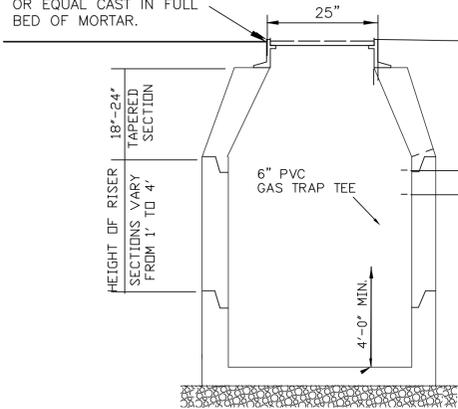
RETENTION/INFILTRATION FACILITY(3)

NOT TO SCALE

TYPICAL CATCH BASIN WITH OIL & GREASE TRAP

NOT TO SCALE

STANDARD CATCH BASIN FRAME & GRATE
LEBARON LF-248-2 FOUR FLANGE
OR EQUAL CAST IN FULL
BED OF MORTAR.



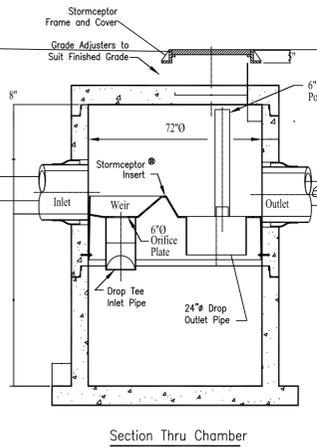
6" COMPACTED GRAVEL BORROW
SUBGRADE AS REQUIRED

NOTES:

1. MANHOLE DESIGN TO CONFORM TO ASTM C478 LATEST REVISION.
2. CONCRETE SHALL BE WET CAST 4000 P.S.I. @ 28 DAYS.
3. FILL OUTSIDE FACE OF ALL CATCHBASIN JOINTS WITH NON-SHRINK MORTAR.

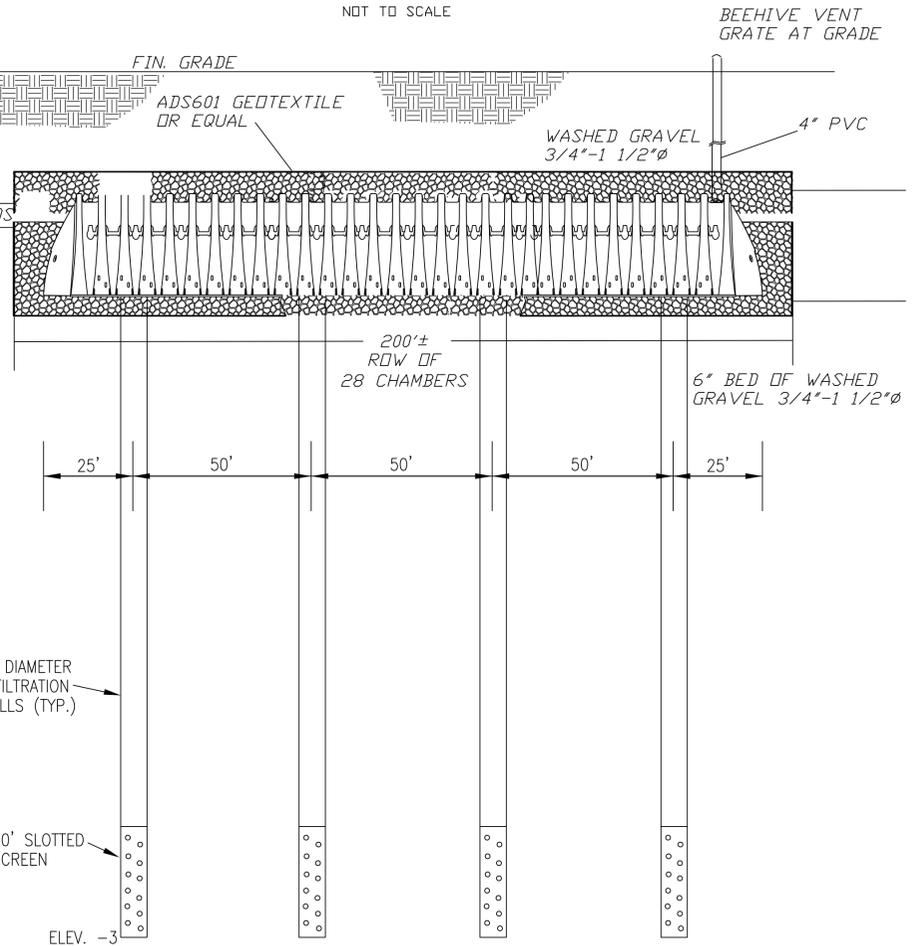
STORMCEPTOR SC-1200

NOT TO SCALE



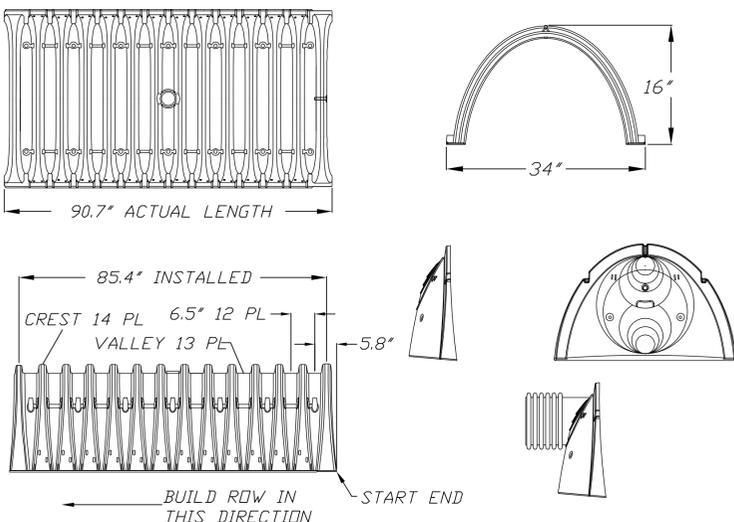
INFILTRATION TRENCH

NOT TO SCALE



STORMTECH SC-310 CHAMBER

NOT TO SCALE



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)	34" x 16" x 85.4"
CHAMBER STORAGE	14.7 CUBIC FEET
MINIMUM INSTALLED STORAGE	31.0 CUBIC FEET
WEIGHT	35 LBS.

**BAXTER ROAD
DRAINAGE PLAN**
PREPARED FOR
TOWN OF NANTUCKET
SCALE: 1" = 30' NOVEMBER 11, 2014
BLACKWELL and ASSOCIATES, Inc.
Professional Land Surveyors
20 TEASDALE CIRCLE
NANTUCKET, MASS. 02554
(508) 228-9026

Haley & Aldrich, Inc.
465 Medford St.
Suite 2200
Boston, MA 02129

Tel: 617.886.7400
Fax: 617.886.7600
HaleyAldrich.com



17 September 2014
File No. 26694-300

Sconset Beach Preservation Fund
c/o Joshua Posner
32 Arlington Street
Cambridge, Massachusetts 02140

Subject: Groundwater Recharge Wells
Baxter Road and Sconset Bluff Storm Damage Prevention Project
Nantucket, Massachusetts

Ladies and Gentlemen:

In response to your request, this letter provides our current recommendations for installation of a groundwater recharge well system along a segment of Baxter Road in Nantucket, Massachusetts. Based on various observations, erosion at the top of the near-vertical bluff east of Baxter Road is due to surface water runoff from rain events concentrating water on Baxter Road and then cascading over the top of slope or breakout of water along the face of slope.

Although slope toe protection (sand-filled geotubes) has been installed in front of certain lot locations (Lot 87 to Lot 105) and appears to offer an element of erosion protection to the base of slope, ongoing erosion and slumping from upland stormwater runoff can reasonably be expected to result in further soil loss to the top of the slope. This erosion continues to threaten Baxter Road, the associated town-owned utilities buried below the roadway, and certain homes in proximity to the eroding slopes.

To reduce bluff erosion, control of surface water run-off should be considered. One component of surface water control should include recharge wells to redirect collected storm water to a passive system that would discharge storm water into the ground below the base of the slope. By intercepting and redirecting the storm water into the ground, a reduction in the volume of overland flow of water will occur and result in reduced erosion of soil at the top and face of the bluff.

Stormwater Recharge System Concept

To address and control upland stormwater along Baxter Road, we recommend a storm water drainage-storage system be installed on the west side of Baxter Road, connected to a series of catch basins and deep groundwater recharge wells that would be designed to receive the redirect the storm water into the ground at beach level. An overflow pipe from the drainage-storage system will be included to direct excess water to the existing wetlands between Lot 92 and 96 Baxter Road.

During storm events, runoff from the roadway and adjacent areas would be captured and piped to the subsurface drainage system which would be configured to flow into a series of groundwater recharge

wells designed to discharge at approximate sea level (El. 0 based on 2013 LiDAR survey elevation datum). This approach reduces overland runoff flow towards the coastal bank, and infiltrates the stormwater below the potential sliding plane (e.g., global failure plane) of the sandy bluff.

System Layout

The proposed system would be installed parallel to Baxter Road, generally between Lot 106 (to the north) and Lot 90 to the south. Surface grading, soil berms and conventional catch basins would capture and direct stormwater into the linear subsurface drainage-storage system, which would then passively flow into a series of vertical deep groundwater recharge wells.

The near-surface drainage-storage system 850 to 900 ft. in length would consist of a series of 3 ft. diameter HDPE pipes installed along the west side of Baxter Road. Catch basins located on both the east and west sides of Baxter Road direct collected water to precast STC 1200 Stormceptor storm water chambers (or similar equivalent). This chamber serves to reduce water turbulence, allows suspended solids to settle out, and functions as an oil/water separator. The outlet pipe of each Stormceptor would be piped to connect into the drainage-storage pipe system.

A series of vertical recharge wells connected to the drainage-storage pipe would be drilled to approximately elevation El. -10 (corresponding to approximately 90 ft. below site grade). The wells would be equally spaced along the drainage-storage pipe segments. The screened well interval would extend from approximately El 0 to El -10. We estimate at least 10 to 12 recharge wells will be required. Our discussions with on-island well drillers indicate they could install a 6 inch diameter well in a 10-inch drill hole. The 6-inch diameter well would consist of a 10 ft. long slotted screen, (Schedule 40 PVC 40-slot; 0.040 inch openings) and solid riser pipe. These wells can be constructed of readily-available well material, using drilling machinery located on-island.

For this design approach, we have assumed the groundwater quality at El 0 will reflect non-potable, brackish water. It is our opinion, the recharge of storm water at this location close to the shoreline would not deleteriously affect the island's "freshwater lens." The well installation may need to meet EPA Underground Injection Control (UIC) permitting requirements for stormwater introduced into a sole-source aquifer. Our recommended next-step study (below) would identify if UIC permitting steps are required to construct the system.

Stormwater System Capacity

To model the stormwater system design, we used geotechnical boring data obtained in July 2007 that was representative of the subsurface stratigraphy. Based on our groundwater recharge model calculations, we estimate the 10 to 12-well system will infiltrate the 50-year design storm event, equivalent to 6.7 in. of precipitation over a 72-hour period. The recharge is estimated at roughly 30,000 gal/day over the three-day storm period. This equates to each well receiving approximately 2.1 gal/min during the storm period, with a corresponding rise in groundwater elevation (mounding) on the order of 2 to 3 ft (upto El. 3). This temporary rise in elevation was considered an acceptable mound height that would be unlikely to break out or discharge directly from the slope face.

As the collected stormwater is reintroduced as recharge at depth (at or slightly below sea level), the unsaturated sand above the groundwater, comprising the Sconset bluffs, remain unsaturated. This is a key objective of the system design, as keeping the upper sand unsaturated reduces the likelihood of global slope instability or large-scale sloughing failure occurring if the stormwater was allowed to infiltrate via conventional infiltration surface basins or overland flow over the top of slope.

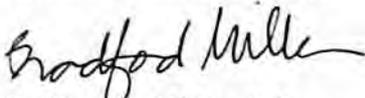
Recommendations

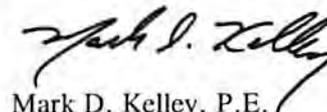
Prior to full-scale design of the stormwater recharge system, we recommend the following incremental steps be considered:

1. Install a single, full scale test well along the proposed alignment. The test well could be integrated and utilized in the overall groundwater recharge system once approval to proceed with the system is obtained.
2. Permit and receive approval for the test well construction with the local Conservation Commission in advance of the installation;
3. Once installed, develop the test well by pumping, surging or flushing. Sample the ambient groundwater for selected drinking water parameters indicating brackish/saline or fresh-water water composition;
4. Perform a multi-day infiltration test by introducing potable water into the well, measuring the well response, groundwater mounding, and groundwater dispersion characteristics during the test. Estimate the actual well response and aquifer properties, and determine the suitability for use in groundwater recharge.
5. Based on favorable test well results, proceed with full-scale design of the drainage-storage and recharge well system.

We appreciate our continued involvement on this project. Please contact us if you have any questions.

Sincerely yours,
HALEY & ALDRICH, INC.


Bradford A. Miller, P.G.
Senior Specialist/Geology


Mark D. Kelley, P.E.
Senior Hydrogeologist


Mark X. Haley, P.E.
Senior Vice President

CC: Epsilon Associates, Inc.; Attn: Les Smith

G:\26694\300\Correspondence\InfiltrationWells_2014\2014-0917-HAI-RechargeWellLetter-F...docx

**Abutter Notification,
Certified Abutter List &
Copies of Certified Mail Receipts**

BLACKWELL & ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS & CIVIL ENGINEERS

**NANTUCKET CONSERVATION COMMISSION
NOTICE OF PUBLIC HEARING OR MEETING**

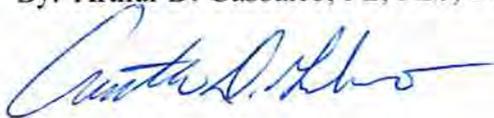
Dear Property Owner:

In accordance with Massachusetts General Laws, Chapter 131, Section 40 and Town of Nantucket By-laws, Chapter 136, Section 4, you are hereby notified that a Public Hearing will be held during the Conservation Commission meeting that begins at 4:00 P.M. in the Public Safety Facility (PSF) Training Room, 2nd Floor, 4 Fairgrounds Road on the following date:

DECEMBER 3, 2014

The purpose of the hearing is to discuss a Notice of Intent Application, pages 1 & 2 of which are enclosed. Copies of the complete application are available for examination at our office by appointment, or at the Commission offices at 2 Bathing Beach Road, call ahead: 508-228-7230.

Sincerely,
Blackwell & Associates, Inc.
By: Arthur D. Gasbarro, PE, PLS, LEED AP



AFFIDAVIT OF SERVICE

UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT

We, BLACKWELL & ASSOCIATES, Inc. (name), hereby certify under the pains and penalties of perjury that on November 13, 2014 (date) we gave notification of abutters in compliance with the second paragraph of Massachusetts General Laws chapter 131 Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A NOTICE OF INTENT APPLICATION

filed under the Massachusetts Wetlands Protection Act by:

Town of Nantucket with the

Nantucket Conservation Commission on:

November 14, 2014 (date) for property located at:

Baxter Road Layout between #85 and 106 - Nantucket, MA 02554 (address)

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

BLACKWELL & ASSOCIATES, Inc.

By: Arthur D. Gasbarro, PE, PLS



Name

Date

✓ \$5.00

TOWN OF NANTUCKET
CONSERVATION COMMISSION

LIST OF PARTIES IN INTEREST IN THE MATTER OF THE PETITION OF:

PROPERTY OWNER.....

MAILING ADDRESS.....

PROPERTY LOCATION..... 87-106 Baxter Rd

ASSESSOR MAP/PARCEL.....

SUBMITTED BY... Blackwell & Associates, Inc.
Ref. B-7275

SEE ATTACHED PAGES

I certify the foregoing is a list of persons who are owners of land directly abutting the property on which the proposed activity will occur (the locus), owners of land separated a distance of one hundred feet or less from the locus by a public or private street or way or stream and owners of land separated a distance of three hundred feet or less from the locus by a body of water, all as they appear on the most recent applicable tax list.

Oct. 23, 2014
DATE

Patricia Giles
ASSESSOR'S OFFICE
TOWN OF NANTUCKET

ABBUTERS LISTING
NANTUCKET, MA

Map	Lot	Un	Owner's Name	Co Owner's Name	Address	City	ST	Zip	Parcel Location
46	15		MATTSON WILLIAM B & MARILEE B	C/O DEBEVORSE	919 3RD AVE	NEW YORK	NY	10022	105 BAXTER RD
48	17		101 BAXTER ROAD LLC		21 VINEYARD ROAD	GREENWICH	CT	06831	101 BAXTER RD
48	18		FURCH ANN B		P O BOX 32876	KNOXVILLE	TN	37950	99 BAXTER RD
48	19		MCCUADE LAWRENCE C & MARGARET		125 EAST 72ND ST	NEW YORK	NY	10021	97 BAXTER RD
48	21		FREEMAN STEVEN T & ERIN P		1563 LAKE HURST AVE	WINTER PARK	FL	32789	93 BAXTER RD
48	22		KORENGOLD DANIEL L TRST		101 E MELROSE STREET	CHEVY CHASE	MD	20815	91 BAXTER RD
48	23		KORENGOLD DANIEL L TRST	D & M BAXTER ROAD NOM TRUST	101 EAST MELROSE STREET	CHEVY CHASE	MD	20815	92 BAXTER RD
48	39		MATTSON WILLIAM B & MARILEE B	D & M BAXTER ROAD NOM TRUST	919 3RD AVENUE	NEW YORK	NY	10022	106 BAXTER RD
48	40		WALKER JAMES E III & DEBORAH C	C/O DEBEVORSE	21 VINEYARD LN	GREENWICH	CT	06831	104 BAXTER RD
48	42		RAILEY DAVID S & DOROTHY O		19 MEADOW LN	GREENWICH	CT	06831	100 BAXTER RD
48	43		SAVERY JANICE S ETAL		P O BOX 3660	NANTUCKET	MA	02584	98 BAXTER RD
48	44		WEBB ALEXANDER III & LAURA R		91 PINCKNEY ST	BOSTON	MA	02114	96 BAXTER RD
48	45		KORENGOLD DANIEL L TRST	D & M BAXTER ROAD NOM TRUST	101 EAST MELROSE STREET	CHEVY CHASE	MD	20815	94 BAXTER RD
49	5		GUIDO LAURANCE J MD PACS ETAL		73 A SNAPPER LANE	KEY LARGO	FL	33037	90 BAXTER RD
49	8		FURROW SAMUEL & ANN		5300 TURTLE POINT LAND	KNOXVILLE	TN	37919	87 BAXTER RD

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GREENWICH, CT 06831 7275

See Reverse for Instructions

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C/O DEBEVORSE
919 3RD AVENUE
NEW YORK, NY 10022 7275

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MCQUADE
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GREENWICH, CT 06831 7275

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 BOSTON, MA 02114

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LAURANCE J GUIDO MD FACS ETAL
 73 A SNAPPER LANE
 KEY LARGO, FL 33037

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BOARD OF HEALTH
 Richard Ray, Health Director
 2 Fairgrounds Road
 Nantucket, MA 02554

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 Leslie Woodson Snell, DEP. DIR.
 2 Fairgrounds Road
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