

EXPERIMENTAL LEASE APPLICATION

1. APPLICANT CONTACT INFORMATION

Applicant	Joe Cutts	
Contact Person	Joe Cutts	
Address	PO Box 190	
City	Friendship	
State, Zip	Maine	
County	Knox	
Telephone	802-238-3423	
Email	jcuttsvt@gmail.com	
Payment Type	<input checked="" type="checkbox"/> Check (included)	<input type="checkbox"/> Credit Card

Note: The email address you list here will be the primary means by which we will contact you. Please provide an email address checked regularly. If you do not use email, please leave this blank.

2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site	
Town	Friendship
Waterbody	Morse's Bay
General Description (e.g. south of B Island)	East end, Friendship Long Island
Lease Information	
Total acreage (4-acre maximum) and lease term (3-year maximum) requested	2.2 acres (Tract 1: 1.5 acres; Tract 2: .7 acres) 3 years
Type of culture (check all that apply)	<input checked="" type="checkbox"/> Bottom (no gear) <input checked="" type="checkbox"/> Suspended (gear in the water and/or on the bottom) <input type="checkbox"/> Net Pen (finfish)
Is any portion of the proposed lease site above mean low water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Note: If you selected yes, you need to complete the steps outlined in the section titled: "17. Landowner/Municipal Permission Requirements".

3. GROWING AREA DESIGNATION

Directions: Information for growing area designations can be found here:

<https://www.maine.gov/dmr/shellfish-sanitation-management/closures/index.html>

Growing Area Designation (e.g. "WL"):	WT
Growing Area Section (e.g. "A1"):	A1

Note: If you are proposing to grow molluscan shellfish in waters classified as anything other than open/approved, you will need to contact the Bureau of Public Health to discuss you plans at the following email: DMRPublicHealthDiv@maine.gov

4. GENERAL LEASE INFORMATION

A. Please complete the table below and add additional rows as needed.

Name of species to be cultivated (include both common and scientific names):	Name and address of the source of seed stock or juveniles	Maximum number (or biomass) of organisms you anticipate on the site at any given time
1. Eastern Oyster (Crassostrea Virginica)	Mook Seafarm, Walpole Muscongus Bay Aquaculture, Bremen	500,000
2.		
3.		
4.		
5.		

B. Do you intend to possess, transport, or sell whole or roe-on scallops? Yes No

If you answered "yes" please contact the Bureau of Public Health to discuss your plans at the following email: DMRPublicHealthDiv@maine.gov

Note: If you are proposing to grow molluscan shellfish, this application also serves as your written operational plan as required in the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter 2, and must be maintained in your files. If you wish to submit an operational plan separate from this application, please contact: DMRPublicHealthDiv@maine.gov

5. VICINITY MAP

Note: You may embed the maps within the document, or attach the maps to the end of your application. If you attach the maps, please label them according to the instructions provided below. If you attach the map, please label it: 'Vicinity Map'.

Directions: Using a NOAA Chart or USGS topographic map, show the area within a minimum of one-half mile of the proposed lease site.

The map needs to display the following:

- The waters, shore lands, and lines of mean high and mean low water within the general area of the lease
- An arrow indicating true north
- A scalebar
- The approximate lease boundaries

(SEE P. 19)

6. BOUNDARY DRAWING

Note: If you attach a drawing, please label it 'Boundary Drawing'.

Directions: Depict the boundaries of the proposed lease site. Provide a drawing with all corners, directions, and distances labeled. Provide coordinates for each corner as follows:

- Coordinate Description
Provide geographic coordinates for each corner of the lease site in latitude and longitude as accurately as possible (e.g., to the nearest second or fraction of a second). Identify the datum from the map, chart, or GPS unit used to develop these coordinates. The datum will be shown on the map or chart you are using. The Coordinate Description may be provided separately from the Boundary Drawing.

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7. RESEARCH PROGRAM AND OPERATIONS

Directions: If you are cultivating more than one species, you will need to provide the below information for each species. Please attach a separate page if needed.

A. Type of study (**check one**): Scientific Research Commercial Research

Please note:

a) Product grown on experimental leases for scientific research cannot be sold. Results of scientific research are not kept confidential.

b) Experimental leases for commercial research are not renewable. Results of commercial research are kept confidential.

B. What is the purpose of the study? If scientific, please include a detailed study design.

Determine viability of site at larger scale, having outgrown limits of LPA. Experiment with on-bottom overwintering (as opposed to sunken cages, which would still be a part of the operation).

C. Describe the general culture process for each species proposed.

The proposed lease comprises two tracts situated to avoid a band of eelgrass between the two (see Section 11, Environmental Characterization). The shallow, inshore tract (Tract 1) would be used for a combination of suspended culture (OysterGro racks) in deeper sections and bottom culture in shallow sections just below MLW. The off-shore, deeper-water tract outside the eelgrass band (Tract 2) would be used exclusively for suspended aquaculture and on-bottom overwintering.

D. What months will the proposed activities (i.e. seeding, tending, and harvesting) occur?

Year-round to some extent, with some winter-month harvesting, but largely limited to spring, summer and fall activity.

E. How often will you be at the site during seeding and harvesting periods?

Almost daily during summer months; at least twice weekly spring and fall; and twice-monthly in winter months.

F. How frequently will you visit/tend the site for routine maintenance (i.e. flipping cages, etc.)?

Almost daily during summer. On a rotating basis, I'd like to flip cages every three weeks or as needed. Also as needed, removing bags from cages for sorting, culling, general tending.

G. Describe the harvesting techniques you will use. If you plan on using a drag, please provide the dimensions.

Harvesting directly into skiff: shipping cages, removing bags, harvesting market-ready product, consolidating/sorting undersize product for return to water. Harvesting in bottom-culture zone will be done by hand at low tide.

H. Describe any overwintering or "off season" plans for the site. For example, will you remove gear from the site and/or deploy gear in different areas within the proposed site? Please include where gear or product will be located if moved from the site.

First-year seed will overwinter in cages sunk to the bottom. Some cages will be removed for winter and stored onshore adjacent to the proposed lease site, on land that I own. On an experimental basis, I would like to try sowing some one- and two-year-old seed directly on bottom, just below low-water mark, to assess whether "bottom-finishing" makes for a more attractive or higher-quality product, and to ascertain whether it can be easily retrieved when ready for market.

I. What type of machinery (e.g. generator, drag, grading equipment, etc.) will you be using on the site? When and how often will the machinery be used?

No machinery.

J. Please provide details on any predator control techniques you plan to employ.

The pontoons of my Oystergro racks are popular perches for cormorants and gulls, but while some fouling occurs it is not troublesome.

K. Suspended culture gear can attract birds that roost on the gear and defecate, potentially creating a pollution source impacting shellfish held within the gear. In order to comply with the National Shellfish Sanitation Program (NSSP) Model Ordinance (MO), DMR is requiring that applications for the suspended culture of shellfish include a description of mitigation or deterrent measures to minimize the potential pollution impacts of birds at the proposed site. If appropriate, include sketches or photos that clearly depict those measures put into practice.

Examples may include:

- Submerging suspended gear and associated product at a depth sufficient to deter roosting for two weeks before harvest
- Attaching physical deterrents (i.e. zip ties) to gear
- The site is proposed for the culture of seed only
- The site is proposed for the culture of adductor-only scallops (i.e. no other shellfish species would be grown on the site)
- Proposed gear would always be suspended below the surface of the water at a depth sufficient to deter roosting (i.e. as is common for scallop lantern nets)

Zip-tie bristles (see photo, page 25) to deter birds from roosting on pontoons. Furthermore, all product will be bottom-finished, ie. submerged for well more than two weeks prior to harvest.

8. EXISTING USES

Directions: Describe the existing uses of the proposed area. Please include the amount of activity, the time of year the activity occurs, frequency, and proximity to the lease site.

<p>A. Describe the existing uses of the proposed area in questions A.1 through A.5 below. Please include the a) type b) time of year c) frequency, and d) proximity to the lease site for each existing use.</p>
<p>1. Commercial Fishing</p> <p>Lobster traps are seldom if ever seen on the proposed site due to its shallow muddy bottom. Two local lobstermen, cousins of mine, moor their work floats just outside the cove. The adjacent intertidal zone was prime clamflat until recent years. Clammers once very common, now almost never.</p>
<p>2. Recreational Fishing</p> <p>Striper and mackerel fishing is occasionally observed in the area of Tract 2, but it is not an especially popular spot.</p>
<p>3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water)</p> <p>Proposed site is very seldom traversed by anyone other than me. Site is located so as to leave plenty of room along the middle/east side of cove for neighbors accessing the three properties at the top of the cove. Occasional kayakers.</p>
<p>4. Ingress and egress (i.e. coming and going) of shorefront property owners within 1,000 feet of the proposal (e.g. docks, moorings, landing boats on shore, etc.)</p> <p>Proposed site is located adjacent to my own shoreline on the west side of the cove. Its location leaves plenty of room up the middle and east side of cove for neighbors accessing their shorefronts at the top of the cove.</p>
<p>5. Other uses (kayaking, swimming, etc.)</p> <p>Neighbor moors a swimfloat in the middle of the cove during summer. As mentioned above, occasional kayaking. My own family are the biggest recreational users of the cove.</p>
<p>B. Are there private docks, moorings, or other access points within 1,000 feet of the proposed lease? If yes, please include approximate distance from proposed lease.</p> <p>As noted above, there are two lobsterman work floats at the entrance to the cove. There is also a neighbor's summer-only swimming float in the middle of the cove, as well as a washed-up float at the top of the cove used by neighbors as a high-tide landing. My own stone-cribbing wharf and two-story shop are the dominant structures on the cove. To the north of the proposed site there is a dilapidated and disused wharf belonging to my neighbor.</p>

C. Are there public beaches, parks, or docking facilities within 1,000 feet of the proposed lease site. If yes, please describe and include approximate distances from proposed lease.

None.

D. Are there any Limited Purpose Aquaculture (LPA) licenses or aquaculture leases within 1,000 feet of your proposed lease site? If yes, please list their acronyms below.

Current and pending aquaculture leases and active LPA licenses may be found here:
<https://www.maine.gov/dmr/aquaculture/leases/index.html>

My own LPA: JCUT21

9. CURRENT OPERATIONS

Directions: If a question does not pertain to your proposed operations, please write “not applicable” or “N/A.”

A. Describe your existing aquaculture operations, including the acronyms of all active leases and/or licenses.

Growing oysters, LPAJCUT21.

B. What are your plans for any existing leases and/or Limited Purposed Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or Limited Purpose Aquaculture (LPA) licenses be relinquished if the lease is granted? If so, please indicate which ones.

Existing LPAJCUT21 would be relinquished if lease is granted.

10. EXCLUSIVE USE

<p>If your lease is granted, what activities would you request be excluded from occurring within the boundaries of the lease site? In your answer please address applicable commercial and recreational fishing, boating activities, and other activities you listed in the 'Existing Uses' section of this application.</p>
<p>I would not request that anyone else's activity, other than aquaculture, be excluded.</p>

11. ENVIRONMENTAL CHARACTERIZATION

Directions: Using your knowledge of the area, describe the environment of the proposed lease site. Be sure to include units of measurement in your answers (i.e. feet, cm/s).

<p>A. What are the approximate depths at mean low water?</p>
<p>Tract 1: Ranging from about .5 feet nearest the shore (west edge of proposed lease) to about 3 feet near the middle of the cove (east side). Tract 2: From 6 feet nearer shore to 12 feet farther out.</p>
<p>B. What are the approximate depths at mean high water?</p>
<p>Tract 1: Approximately 10-13 feet. Tract 2: 20-26 feet</p>
<p>C. Provide the approximate current speed and direction during the ebb and flow.</p>
<p>Proposed site is not in an estuary or river, rather it is in fairly open bay. As such, tide flow is not great, less than 1 mph northward on the flow and roughly the same southward on the ebb.</p>

D. The following questions (D.1 through D.6) may be answered in writing or by submitting a video. If you plan to submit a video, please contact the Department prior to video collection.

1. What are the bottom characteristics (mud, sand, gravel, rock, ledge or some mix, etc.)?

Almost entirely featureless mud on both tracts, occasional stones. One large boulder on the west edge of Tract 2 is submerged except on the lowest of tides.

2. Describe the bottom topography (flat, steep rough, etc.).

Uniformly flat on both tracts, with a very gentle slope away from the shore.

3. Describe marine organisms by species or common names. Based on your personal observations or other sources of information, are these species abundant, common, or rare?

The lease site itself shows little sign of animal life, though I suspect there are quahogs, based on seeing dead and dying ones washing up on shore after a big blow. Some periwinkles, hermit crabs, green crabs.

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.

The adjacent intertidal zone was once prime clamflat. It was also abundant with mussels. There is little sign of either species now.

5. Describe the presence and extent of submerged aquatic vegetation, i.e. eelgrass, within the proposed lease area. Please include the date of this observation along with the method of observation. If submerged aquatic vegetation is observed, please also describe the abundance below and sketch the limits of the beds in the vicinity map.

As noted above, the proposed lease comprises two tracts which are situated so as to avoid eelgrass. Tract 1 is located in a deep shallow cove adjacent to my wharf. A band of healthy eelgrass spans the mouth of the cove. Tract 2 is offshore well beyond the eelgrass band. Recent observation (July 1): Tract 1 bottom is clearly visible from skiff at low tide. The nearest eelgrass is a small isolated patch about 30 feet north of north border of proposed Tract 1. Bottom of Tract 2 was not visible due to depth, but closest visible eelgrass appeared to be more than 100 feet.

6. Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)

The adjacent shoreline, which is owned by me, is former saltwater farm now largely overgrown with first-growth forest. My roughly quarter-mile of shoreline is bracketed by two wetland areas and their respective outflow streams. In between is about half mown field/orchard and the other half forest, moderately sloping. Forest comprises mostly spruce, now nearing the end of its life and giving over to red oak and birch.

E. Is your proposed lease located within a Maine Department of Inland Fisheries and Wildlife designated Essential Habitat?

Yes No

Note: The location of Essential Habitats in the State of Maine, along with information on how projects within these areas are reviewed, can be found here: <https://www.maine.gov/ifw/fish-wildlife/wildlife/endangered-threatened-species/essential-wildlife-habitat/index.html>

If a project is located within an Essential Habitat, applicants are strongly encouraged to contact the MDIFW Environmental Review Coordinator (John.Perry@maine.gov, phone: 207-287-5254) prior to application submission.

F. Will your operations discharge anything into the water such as feed (pellets, kelp, etc.) or chemical additives (therapeutants, chemical treatments, etc.)?

Yes No

Note: If you answered yes, you must submit a video of the bottom using a method prescribed by the Department. **The video must be filmed between April 1 and November 15.** If a discharge is proposed you will also need to obtain a Maine Department of Environmental Protection (DEP) discharge permit. For information on this permit please contact DEP's Wastewater Licensing Program (Gregg.wood@maine.gov, 207-287-7693). Further sampling may be required by DMR, or DEP, depending on the characteristics of the site or the proposed activities.

12. STRUCTURES (if applicable)

If your operations require the use of cages, nets, ropes, trays, or any object (structure) other than the organism to be grown directly on the bottom or buoys to mark the corners of the lease site, you must submit an **Overhead View** and **Cross-Section View** of your gear plans. It is important to note that, unlike Limited Purpose Aquaculture (LPA) Licenses, experimental and standard leases require that all gear, including moorings, must be located within the proposed lease boundaries.

Note: You may embed the gear plans, or attach them to the end of your application. If you attach the plans, please label them according to the instructions provided below.

A) Overhead View (please label this "Overhead View"):

Directions: All dimensions need to be labeled with the appropriate units (i.e. 10ft, 10in)

- Show maximum layout of gear including moorings.
- Show dimensions of entire gear layout
- Show approximate spacing between gear.
- Show lease boundaries and the location of proposed markers on all drawings.

B) Cross-Section View (please label this "Cross Section View"):

Directions: The cross-section view must show the following:

- The sea bottom
- Profile of gear in cross-section as it will be deployed
- Label gear with dimensions and materials
- Show mooring gear with mooring type, scope, hardware, and line type and size
- Water depth at mean high and mean low water

Note: Please include an additional Cross Section View, depicting the elements listed above, if there will be seasonal changes to gear layout (i.e. over wintering).

C) Gear Description

Directions: List and describe each individual gear type that you will use in the table below.

Specific Gear Type <i>(e.g. soft mesh bag)</i>	Dimensions <i>(e.g. 16"x20"x2")</i>	Time of year gear will be deployed <i>(e.g. Spring, Winter, etc.)</i>	Maximum amount of this gear type that will be deployed on the site <i>(i.e. 200 cages, 100 lantern nets, etc.)</i>	Species that will be grown using this gear type
OysterGro racks (4 bags each)	41x39x36"	Yearround (submerged in winter)	265	Eastern oyster
Screened seed boxes	30x30x5"	Summer	30	Eastern oyster

D) Gear Drawing (please label this "Gear Drawing").

Directions: Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. The drawing(s) needs to depict the length, width, and height of each gear type with appropriate units referenced (i.e. 10in, 10ft, etc.).

SEE P. 31

13. MARKING

Will you be able to mark your site in accordance with DMR regulations, Chapter 2.80? In part, this requires marker buoys which clearly display the lease ID and the words SEA FARM to be located at each corner of the lease. Effective January 1, 2023, marker buoys must be yellow and host reflective material.

Yes No

If you answered no, explain why and suggest alternate markings.

Note: If a lease is granted, you will also be required to mark the site in accordance with appropriate US Coast Guard Regulations. If you have questions about US Coast Guard regulations contact: 1st Coast Guard District, Aids to Navigation Office.

14. RIPARIAN LANDOWNERS AND SITE ACCESS

A. If your lease is within 1,000ft of shorefront land (**which extends to mean low water or 1,650 ft. from shore, whichever is less, according to NOAA charts**), the following supporting documents are required:

1. A labeled copy of a tax map(s) depicting the location of the proposed lease site and including the following elements:
 - Label the map “Tax Map: Town of (name of town).”
 - Legible scale
 - Tax lot numbers clearly displayed
 - The boundaries of the proposed lease
2. Please use the Riparian Landowner List (included on the next page) to list the name and address of every shorefront landowner within 1,000ft of the proposed lease site. Have the tax collector or clerk of the municipality certify the list. Refer to the riparian determination guidance document to ensure all riparian landowners are included:
<https://www.maine.gov/dmr/aquaculture/forms/documents/RiparianDetermination.pdf>

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Note: When the application and riparian list are both ready to be submitted, you may choose to email a copy of the riparian list and proposed lease coordinates to DMRAquaculture@maine.gov for staff to verify that all required parcels are included on the list *before* having it certified by the municipality. DMR will not verify a riparian list multiple times, so please ensure there will be no additional changes to the application before emailing the riparian list for verification.

3.If any portion of the site is intertidal you need to complete the steps outlined in “17. Landowner/Municipal Permission Requirements”.

B. Will your access to the lease area be across riparian land?

Yes No

Note: If you selected yes, you will need to complete the landowner permission requirements included in “17. Landowner/Municipal Permission Requirements” of this application.

C. How will you access the proposed site?

The proposed lease is located adjacent to riparian land owned by myself.

RIPARIAN LANDOWNER LIST

THIS LIST MUST BE **CERTIFIED** BY THE TOWN CLERK

On this list, please include the map number, lot number, and the current owners' names and mailing addresses for all shorefront parcels within 1,000 feet of the lease site. It is the applicant's responsibility to assemble the information for the Town Clerk to certify. The Town Clerk only certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If riparian parcels are located within more than one municipality, provide a separate, tax map and certified riparian list for each municipality.

TOWN OF: _____

MAP #	LOT #	Landowner name(s) and address(es)
123	1	Christopher Cleary 209 Windemere Ave., Interlaken N.J. 07712
216	11	Joe Cutts PO Box 190, Friendship, ME 04547
216	12	Bower Family LLC, Attn. Doris Rygalski, Esq. PO Box 4600, Portland ME 04112
216	13	Bower Family LLC, Attn. Doris Rygalski, Esq. PO Box 4600, Portland ME 04112
216	14	Brian and Nancy Woods 18 Martin Point Rd., Friendship ME 04547
216	15	Edward and Anita McLellan 17 Washington Way, Kingston, N.H. 03848

Please use additional sheets if necessary and attach hereto.

SEE PAGES 26-28

CERTIFICATION

I, _____, Town Clerk for the Town of _____ certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: _____ **DATE:** _____

15. ESCROW ACCOUNT OR PERFORMANCE BOND

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
<input type="checkbox"/>	No gear/structure, no discharge	None
<input type="checkbox"/>	No gear/structure, discharge	\$500.00
<input type="checkbox"/>	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
<input checked="" type="checkbox"/>	>400 square feet of gear/structure, no discharge	\$5,000.00*
<input type="checkbox"/>	Gear/Structure, discharge	\$25,000.00

*DMR may increase the bond/escrow requirements for leases with more than 2,000 feet of structure.

I, *(printed name of applicant)* _____ have read DMR Aquaculture Regulations 2.64(12)(B) and if this proposed lease is granted by DMR I will either open an escrow account or obtain a performance bond, depending on the category of lease.

Applicant Signature

9/20/22

Date

Note: Add title if signing on behalf of a corporate applicant.

ADDITIONAL APPLICANTS: Each applicant must sign this section indicating that they will open an escrow account or obtain a performance bond. Use the space below for additional persons listed on the application. You may attach additional pages, if necessary.

I, *(printed name of applicant)* _____ have read DMR Aquaculture Regulations 2.64(10)(D) and if this proposed lease is granted by DMR I will either open an escrow account or obtain a performance bond, depending on the category of lease.

Applicant Signature

Date


Note: Add title if signing on behalf of a corporate applicant.

16. APPLICANT SIGNATURE PAGE

I hereby state that the information included in this application is true and correct. I have also read and understand the requirements of the Department's rules governing aquaculture and the application instructions pertaining to the experimental lease process.

Printed name: JOE CUTTS

Title (if corporate applicant): _____

Signature:  Date: 9/20/22

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Note:

- All applicants must sign and date this page. Please use the space below, if additional signatures are required.
- Corporate applicants, please be sure to include the title (i.e. President, Treasurer, etc.) of the individual(s) signing on the company's behalf.

17. LANDOWNER/MUNCIPAL PERMISSION REQUIREMENTS *(if applicable)*

PART I: The use of private property to access your site.

Pursuant to 2.64(C)(6) if you are using private property to access the proposed lease site, you need to submit written permission from the property owner with your application. It is your responsibility to obtain written permission. Please note that the Department does not provide forms for landowner or municipal permission. **If any portion of your site is also intertidal you will need to complete the steps outlined in Part II, below.**

PART II: If any portion of the site is intertidal you need to complete the following steps:

Step I: Obtain written permission from all intertidal landowners.

Pursuant to 2.64(C)(6) the Department requires *written permission of every owner of intertidal land in, on, or over which the experimental activity will occur*. It is your responsibility to obtain written permission and include it with your application materials. Please note that the Department does not provide forms for landowner permission.

Step II: Determine if the municipality where your site is located has a shellfish conservation program.

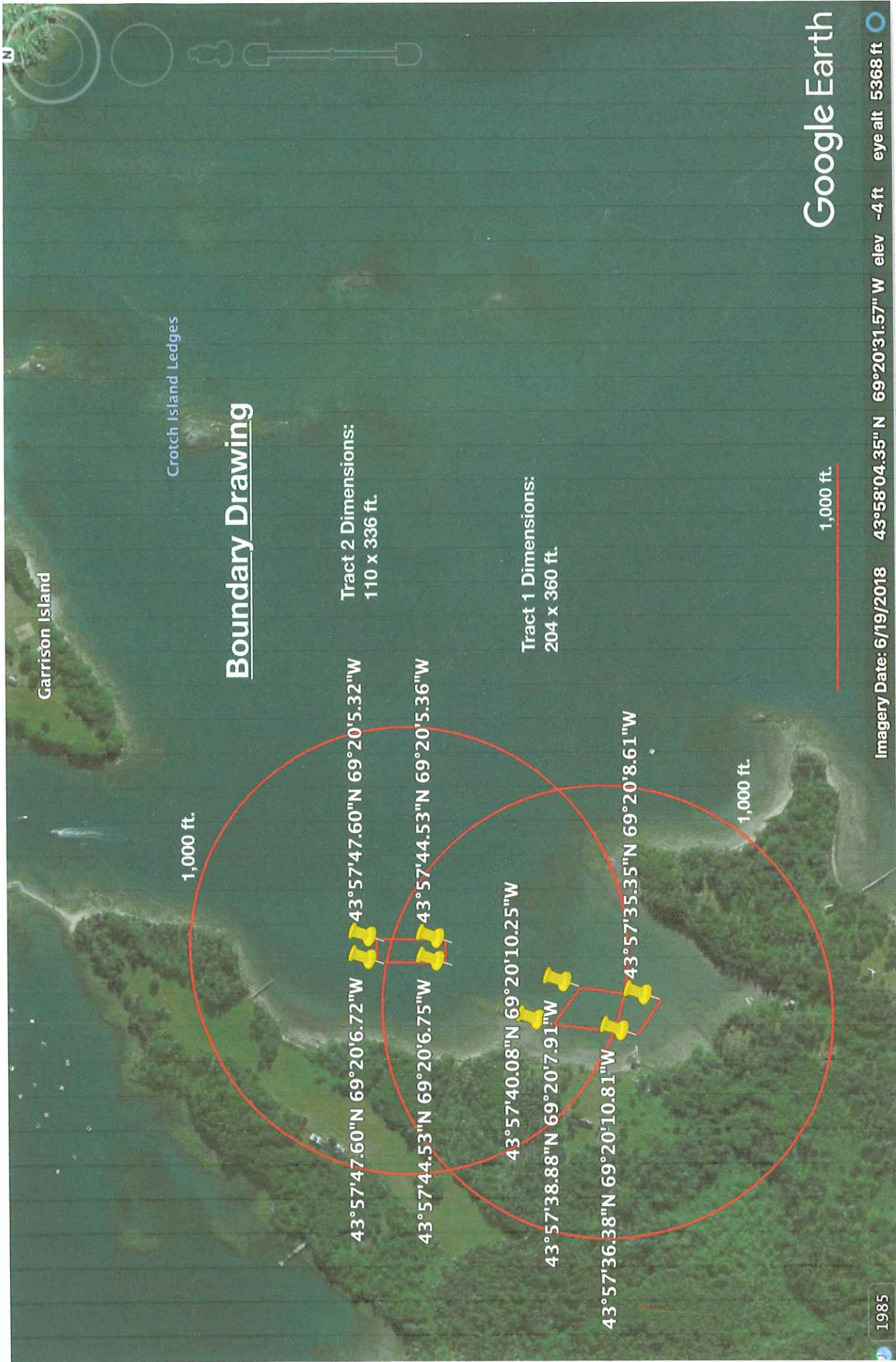
Pursuant to 12 MRSA §6072(3) *In any municipality with a shellfish conservation program under section 6671, the Commissioner may not lease areas in the intertidal zone within the municipality without the consent of the municipal officers.*

If the municipality where the proposed lease site is located has a shellfish conservation program, it is your responsibility to obtain consent for the proposed lease site from the municipal officers (i.e. the selectmen or councilors of the town, or the mayor and aldermen or councilors of a city.) Consent means a majority vote of the municipal officers as recorded in a public meeting.

It is your responsibility to contact the municipality and determine if they have a shellfish conservation program. Best practices would include discussing your plans with shellfish committee members, but only the consent of municipal officers is required.

1. Does the municipality, where the proposed site is located, have a shellfish conservation program? Yes No

If you answered yes, please attach documentation from a public meeting demonstrating that a majority of municipal officers have consented to your proposal.



Garrison Island

Crotch Island Ledges

Boundary Drawing

1,000 ft.

1,000 ft.

43°57'47.60"N 69°20'6.72"W 43°57'47.60"N 69°20'5.32"W

43°57'44.53"N 69°20'6.75"W 43°57'44.53"N 69°20'5.36"W

43°57'40.08"N 69°20'10.25"W

43°57'38.88"N 69°20'7.91"W

43°57'36.38"N 69°20'10.81"W

43°57'35.35"N 69°20'8.61"W

Tract 2 Dimensions:
110 x 336 ft.

Tract 1 Dimensions:
204 x 360 ft.

1,000 ft.

1985

Google Earth

Imagery Date: 6/19/2018

43°58'04.35" N

69°20'31.57" W

elev -4 ft

eye alt 5368 ft

A.20

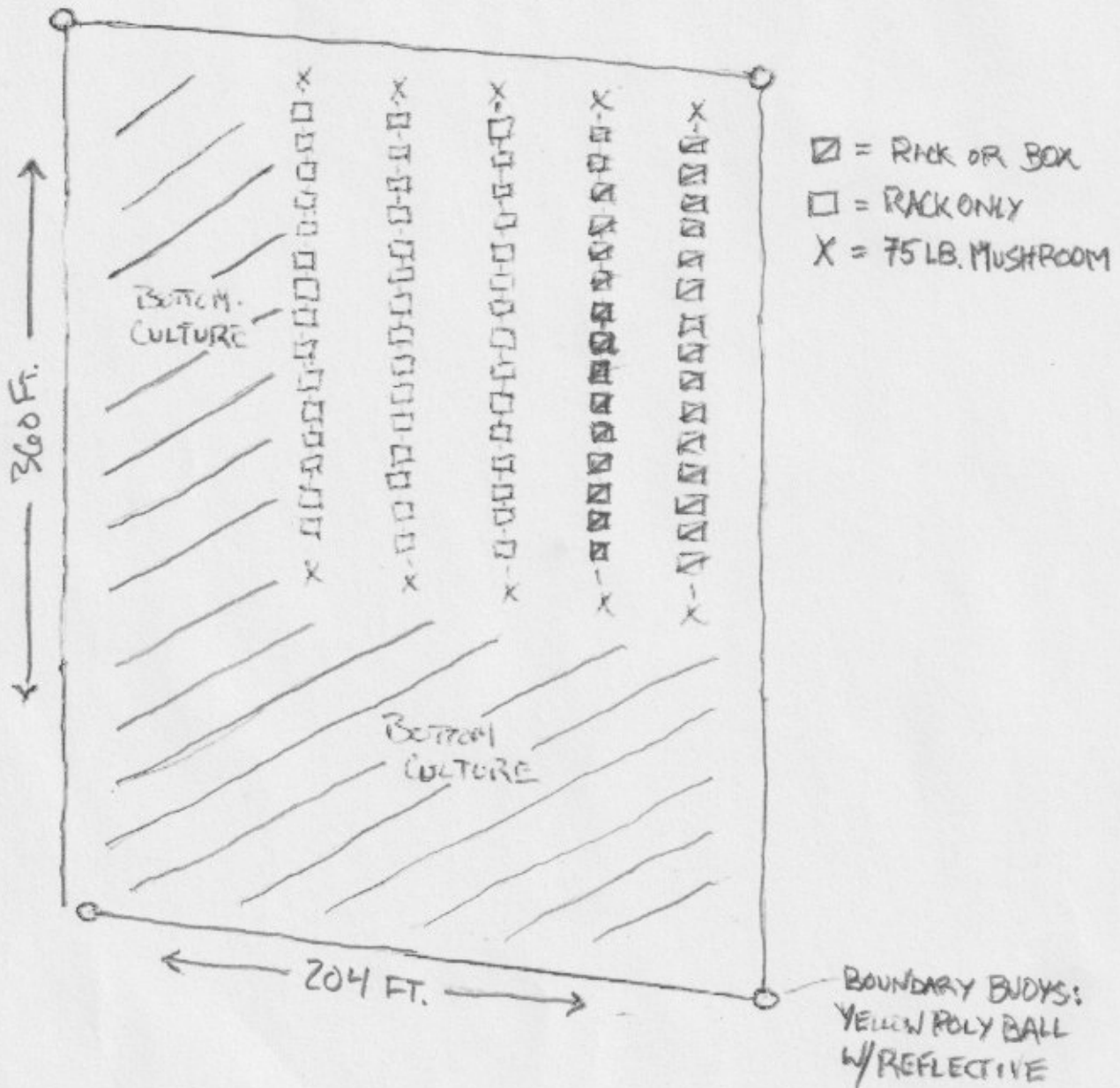
Gear Drawing, Overhead, Tract 1:

Maximum 75 racks and/or seed boxes (5 rows @ 15 racks each, 15 ft. between rows, removed Nov. - May)

Header lines: 5/8" poly; Moorings: 75 lb. mushroom anchors; Racks Oyster Gro 4-bag (39X40")

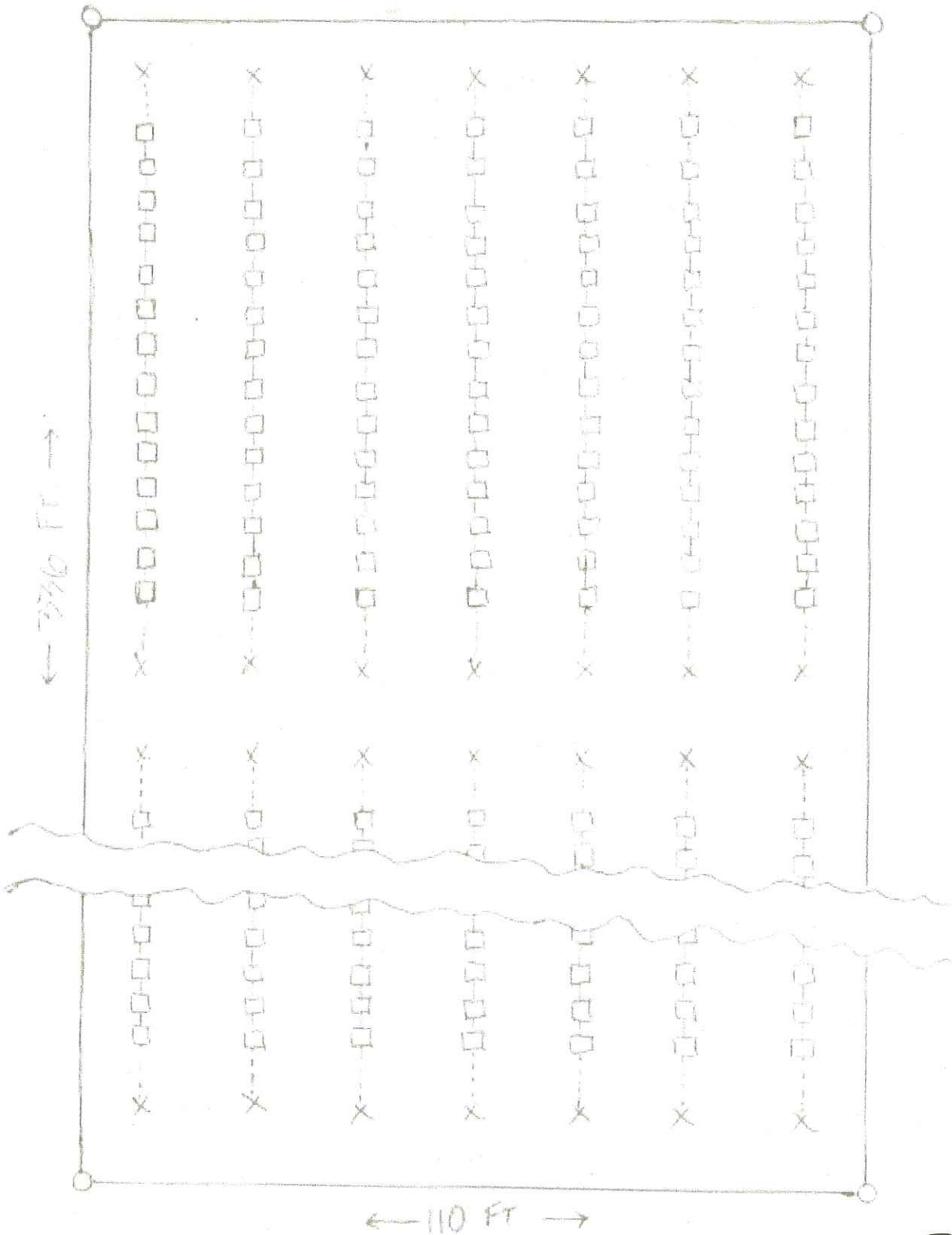
Note: Maximum number of seed boxes, 30, would only be deployed in early summer. They will then gradually be replaced on the string by OysterGro racks as seed reaches rack size.

Maximum number of racks and/or seed boxes will not exceed 265 total for both tracts.



Gear Drawing, Overhead, Tract 2:

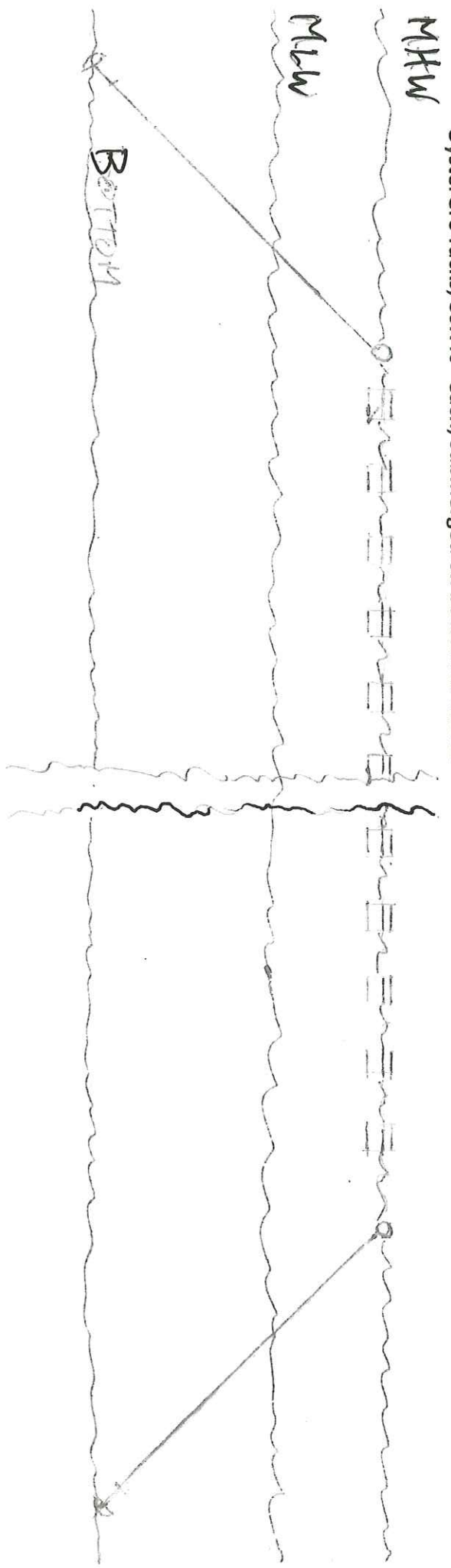
Maximum 14 rows with up to 15 racks per row, total number of racks not to exceed 190. 13 ft. between rows, with 9.5 ft. low-tide swing room within boundaries each side. Submerged Nov.-May. Header lines: 5/8" poly; Moorings: 75 lb. mushroom anchors. Racks: OysterGro 4-bag (39X40"), spaced 8 ft. apart. Mooring line scope: XHT depth plus 2 ft.



Gear Drawing, Cross Section, Tracts 1 and 2:

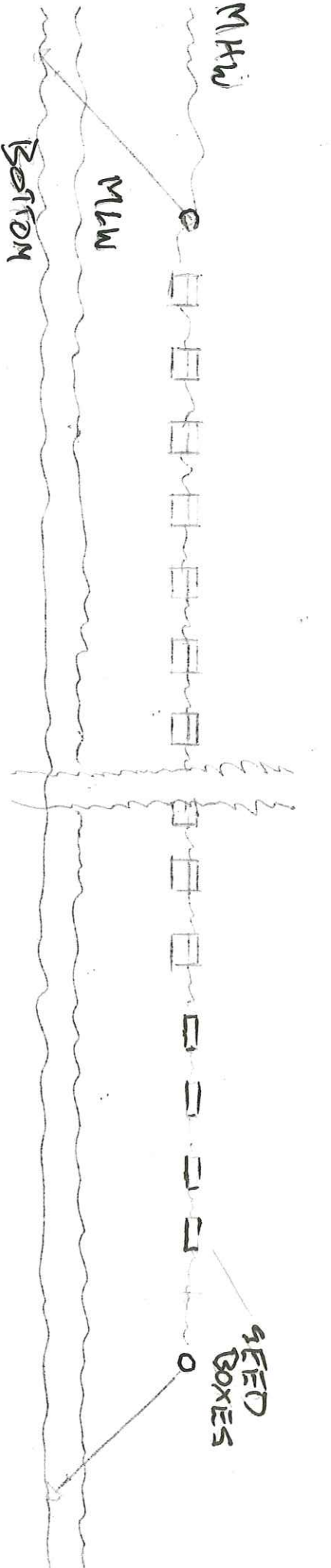
Tract 2 (offshore): MLW 6-12 ft., MHW 20-26 ft.

Oyster Gro racks, 39X40" each, submerged on bottom in winter



Tract 1 (inshore): MLW .5-3 ft., MHW 10-13 ft.

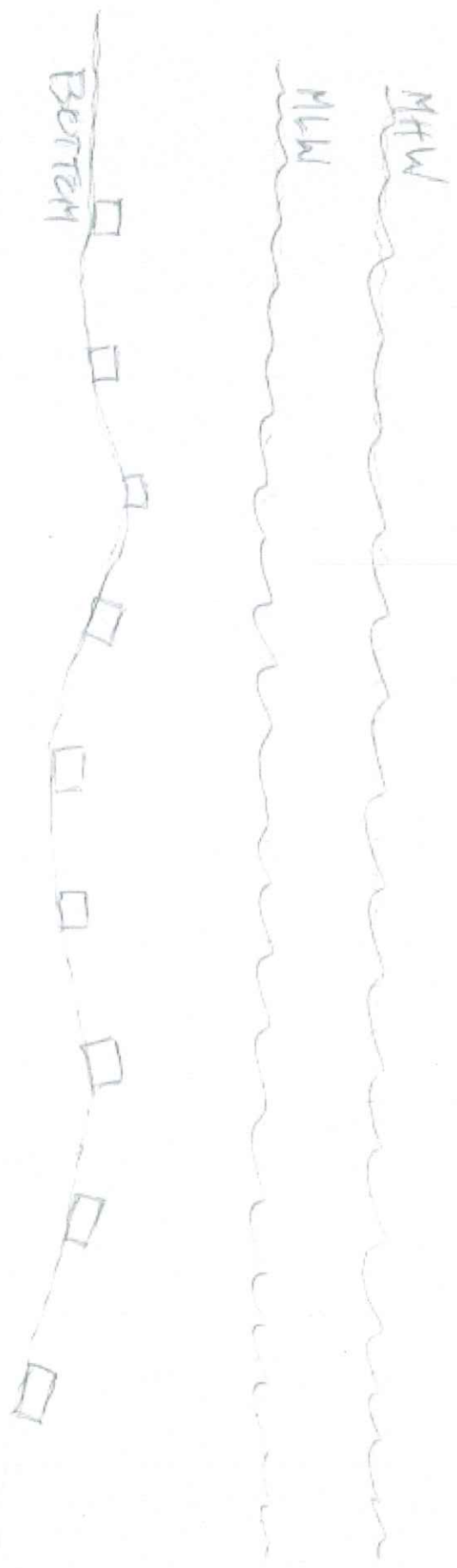
Oyster Gro racks, removed in winter; screened seed boxes, June-Aug.



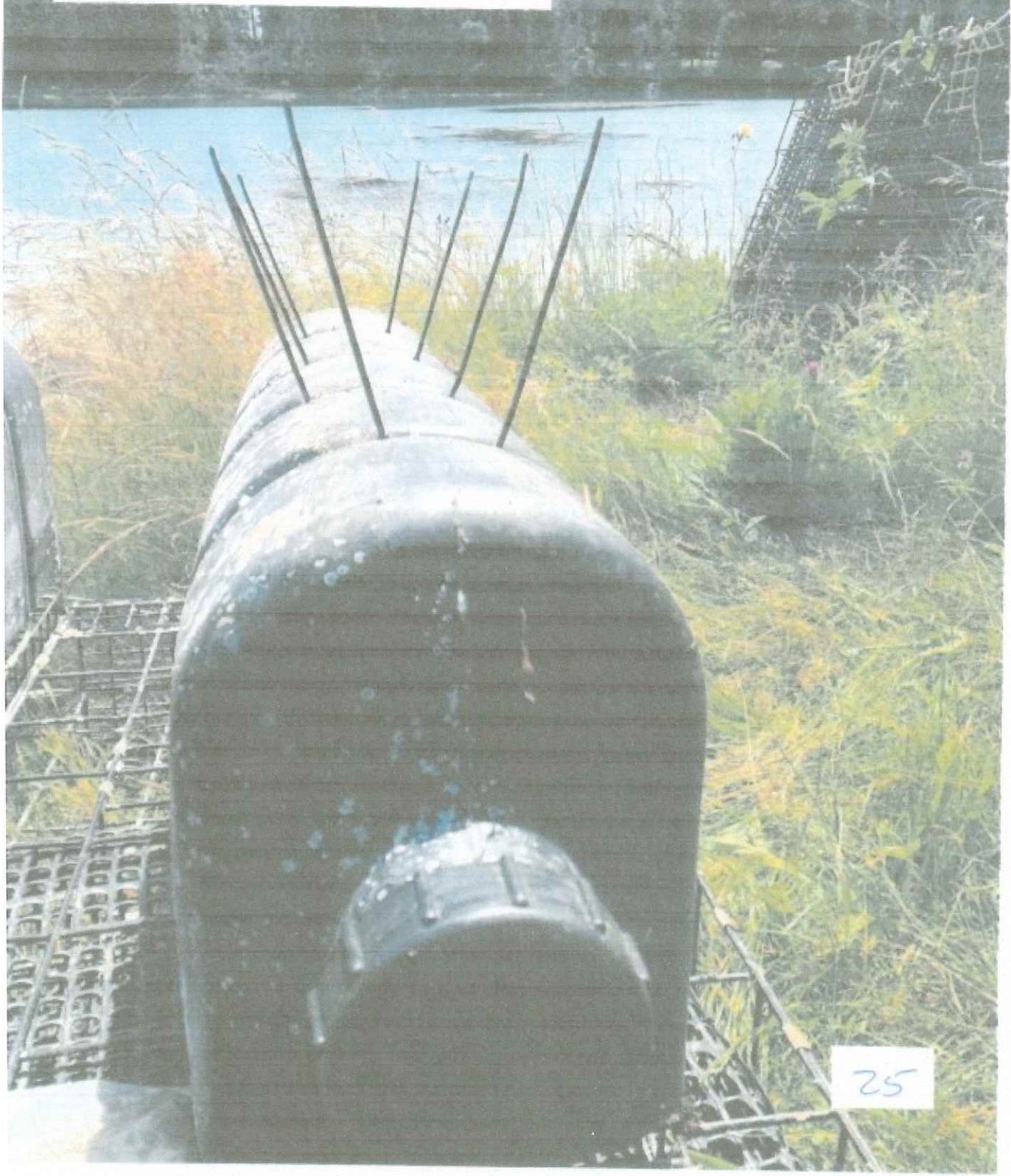
Gear Drawing, Cross Section, Tract 2, Winter:

OysterGro racks, submerged to bottom, moorings removed.

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Proposed bird deterrent strategy:
12" zip-ties



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RIPARIAN LANDOWNER LIST

*THIS LIST MUST BE **CERTIFIED** BY THE TOWN CLERK*

On this list, please include the map number, lot number, and the current owners' names and mailing addresses for all shorefront parcels within 1,000 feet of the lease site. It is the applicant's responsibility to assemble the information for the Town Clerk to certify. The Town Clerk *only* certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If riparian parcels are located within more than one municipality, provide a separate, tax map and certified riparian list for each municipality.

TOWN OF: Friendship

MAP #	LOT #	Landowner name(s) and address(es)
123	1	Christopher Cleary 209 Windemere Ave., Interlaken N.J. 07712
216	11	Joe Cutts PO Box 190, Friendship, ME 04547
216	12	Bower Family LLC, Attn. Doris Rygalski, Esq. PO Box 4600, Portland ME 04112
216	13	Bower Family LLC, Attn. Doris Rygalski, Esq. PO Box 4600, Portland ME 04112
216	14	Brian and Nancy Woods 18 Martin Point Rd., Friendship ME 04547
216	15	Edward and Anita McLellan 17 Washington Way, Kingston, N.H. 03848

Please use additional sheets if necessary and attach hereto.

CERTIFICATION

I, Jessica Tinker Murphy, Town Clerk for the Town of FRIENDSHIP certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: Julyana Leung DATE: 9/21/2022

RIPARIAN LANDOWNER LIST

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TOWN OF: Friendship

MAP #	LOT #	Landowner name(s) and address(es)
216	16	Edward and Anita McLellan 17 Washington Way, Kingston, N.H. 03848
216	17	Town of Friendship (Cemetery)
216	18	Robert Simmons 32 Timber Point Rd., Friendship, ME 04547
216	19	Arthur Roberts 15 Roberts Lane, Friendship ME 04547
216	20	William Chapman 1257 Friendship Rd., Waldoboro, ME 04572
216	21	Karen Lozier 164 Palmer St., Acton MA 01720

Please use additional sheets if necessary and attach hereto.

CERTIFICATION

Jessica Trinton Murphy, Town Clerk for the Town of Friendship certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: Jessica Trinton Murphy DATE: 9/21/22

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RIPARIAN LANDOWNER LIST

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TOWN OF: Friendship

MAP #	LOT #	Landowner name(s) and address(es)
216	22	Ellen and Genthner Ahlemeyer and Ramona Genthner 50 Simmons Lane, Friendship ME 04547

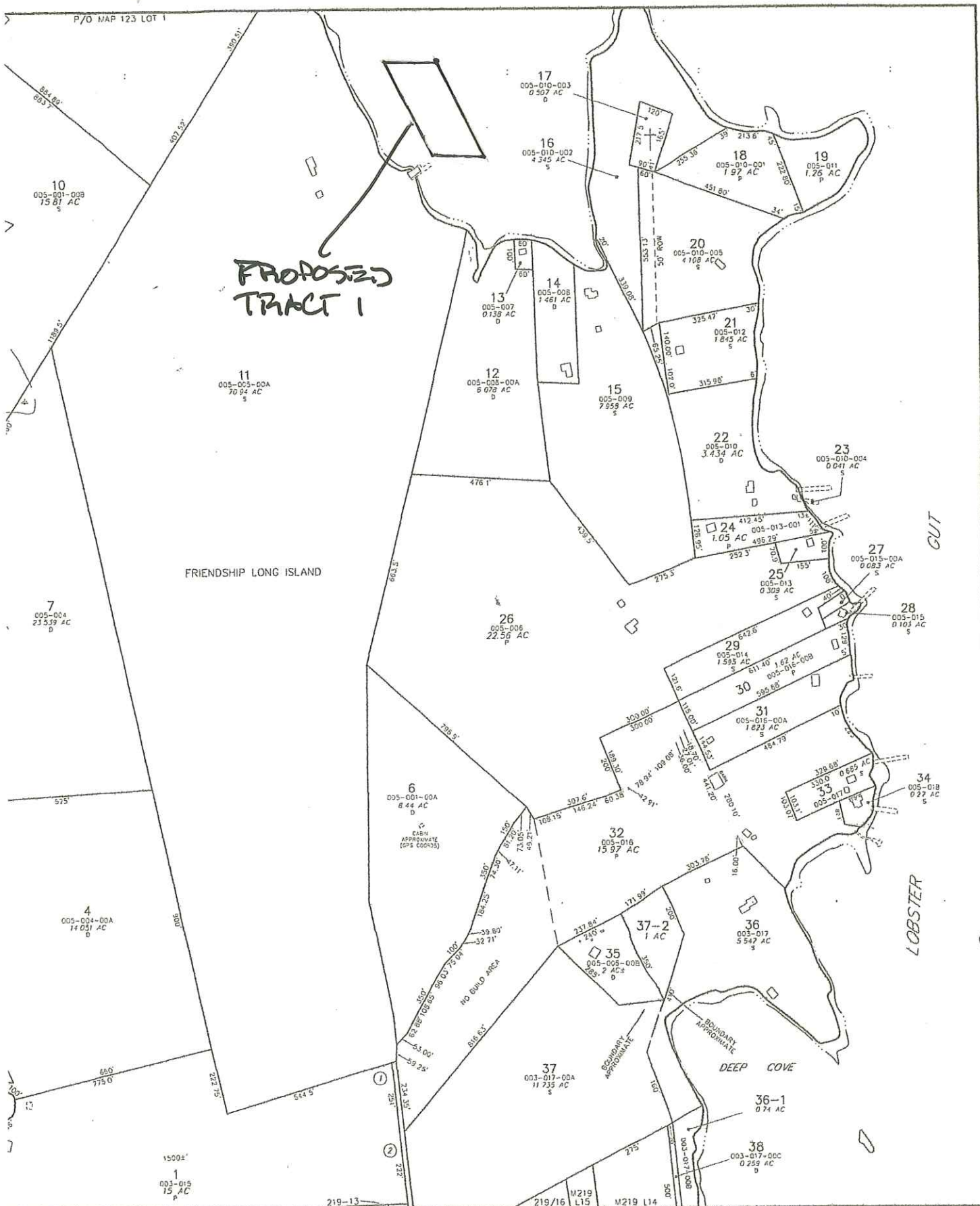
Please use additional sheets if necessary and attach hereto.

CERTIFICATION

Jessica Trinken Murphy Town Clerk for the Town of Friendship certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED: Jessica Trinken Murphy DATE: 9/21/22

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APRIL 1, 2021



SCALE 1 INCH = 200 FEET

MAINE STATE PLANE COORDINATE GRID, EAST ZONE, NAD 1983 US FEET
 PHOTOGRAPHY DATE APRIL 30, 2003
 PHOTOGRAMMETRIC COMPILATION BY AERIAL SURVEY AND PHOTO, INC
 PARCEL MAP COMPILATION BY AERIAL SURVEY AND PHOTO, INC

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218	219			

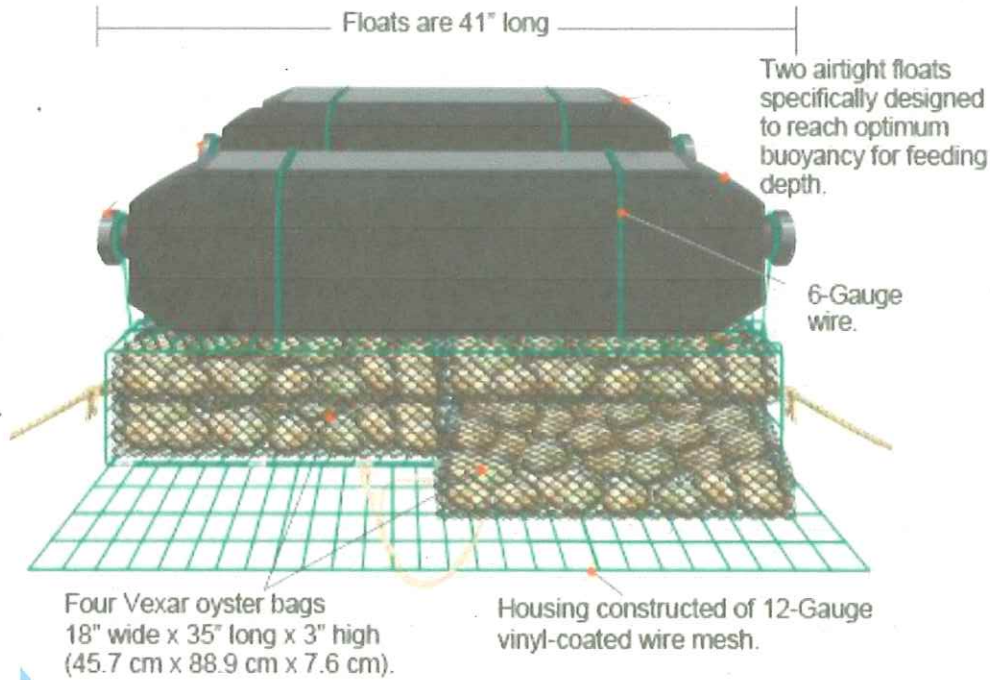
PROPERTY MAP
 TOWN OF FRIENDSHIP
 KNOX COUNTY, MAINE

216

Gear Dimensions:

OysterGro 4-bag racks: 41" long, 39" wide, 36" high

Mini OysterGro®



Screened seed boxes: 30" X 30", 5 inches deep

