

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs

EOEA No.: 14444
 MEPA Analyst: Holly Johnson
 Phone: 617-626-1023

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Phinneys Harbor Monument Beach, Marina Reconfiguration		
Street: Phinneys Harbor, off Shore Road		
Municipality: Bourne - Pocasset	Watershed: Phinneys Harbor	
Universal Tranverse Mercator Coordinates:	Latitude: 41°, 42', 51.64" Longitude: -70°, 36', 56.58"	
Estimated commencement date: 1/2010	Estimated completion date: 2/2010	
Approximate cost: \$100,000	Status of project design: 100 %complete	
Proponent: Town of Bourne Selectmen, c/o Michael Leitzel Director of Engineering		
Street: 24 Perry Avenue		
Municipality: Buzzards Bay	State: MA	Zip Code: 02532
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Norman W. Hayes		
Firm/Agency: BSC Group, Inc.	Street: 349 Route 28, Unit D	
Municipality: West Yarmouth	State: MA	Zip Code: 02673
Phone: 508-778-8919	Fax: 508-778-8966	E-mail: nhayes@bscgroup.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No

Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No

Has any project on this site been filed with MEPA before?
 Yes (EOEA No. 13765) No

Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:

a Single EIR? (see 301 CMR 11.06(8))	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
a Special Review Procedure? (see 301CMR 11.09)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
a Waiver of mandatory EIR? (see 301 CMR 11.11)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
a Phase I Waiver? (see 301 CMR 11.11)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres):

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals: Notice of Intent - Orders of Conditions, Programmatic General Permit - Army Corps of Engineers- DEP Division of Water Quality Certification Under Review

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---------------------------------------|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input checked="" type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify: WQC – W078807 Chapter 91 LC #11944
Total site acreage	94			
New acres of land altered		9.2		
Acres of impervious area	1.57 acres	0.96 acres	2.53 acres	
Square feet of new bordering vegetated wetlands alteration		N/A		
Square feet of new other wetland alteration		4.36 acres		
Acres of new non-water dependent use of tidelands or waterways		N/A		
STRUCTURES				
Gross square footage	11,670 s.f.	+9,683 s.f.	21,353 s.f.	
Number of housing units	2	N/A	2	
Maximum height (in feet)	10	N/A	10	
TRANSPORTATION				
Vehicle trips per day (season)	150	75	225	
Parking spaces	93	63	156	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	N/A			
GPD water withdrawal	N/A			
GPD wastewater generation/ treatment	N/A			
Length of water/sewer mains (in miles)	N/A			

Note wastewater from marina is transferred by pump out to the Taylors Point Wastewater Treatment Facility

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

- Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify NHESP Estimated Habitat of Rare Species) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify: Bourne Back River) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*)

See Attached

PROJECT DESCRIPTION

1.0 INTRODUCTION

The Town of Bourne Phinneys Harbor Marina Reconfiguration Project involves the licensing of a Marina Reconfiguration Zone within Phinneys Harbor in which all past, current and future marina activities will be licensed. Once this comprehensive permit is issued by the Department of Environmental Protection Division of Waterways, Chapter 91 Program, all future activities within the reconfiguration zone will need no further permitting. This will include additions and changes to structures provided the overall changes are 10% or less than the existing footprint. Appended to this request for an Environmental Notification Form are: Section #1 – Project History, Sections #2 – Jurisdictional Review, and Section #3 – Summary of Environmental Permits. Once all Federal, Regional, State, and Local permits are obtained the Town of Bourne will be able to respond to emergency storm impacts, replace structures, add and reconfigure slips, and dredge in accordance with the conditions in the permit for up to thirty years without applying for an additional permit. Portions of the proposed activities were previously permitted under Order of Conditions SE 7-1614. Land Under the Ocean, Land Containing Shellfish, Coastal Beach, Natural Heritage and Endangered Species Habitat, and Land Subject to Coastal Storm Flowage will continue to be altered coincidental to normal marina operations. This application for an Environmental Notification Form is submitted in accordance with the Massachusetts Wetlands Protection Act and the Town of Bourne Wetlands Protection By-law.

2.0 SITE DESCRIPTION

Phinneys Harbor is a coastal waterway connected to Buzzards Bay and is accessed by a public boat ramp located at the Monument Beach parking lot. Phinneys Harbor supports recreational and commercial shellfishing and recreational boating. Phinneys Harbor contains a town marina located at Monument Beach and a mooring field associated with the marina. There are no Eelgrass beds or salt marsh flats within the project area. Shellfish resources may be significant within the project areas as determined through BSC's shellfish survey and the site falls outside of the Town of Bourne Back River Area of Critical Environmental Concern. The wetland resource areas and areas of conservation jurisdiction on the site that are protected under the Wetlands Protection Act and the Town of Bourne's Wetland Protection Bylaw include:

- Land Under the Ocean
- Land Containing Shellfish
- Coastal Beach
- Land Subject to Coastal Storm Flowage
- Massachusetts Natural Heritage and Endangered Species Program - Estimated Habitat of Rare Wildlife, but only that area of the marina reconfiguration that falls seaward of -8 pay -9 mean low water but with the exception of section 10A Harbormaster permitted activities.

3.0 PROPOSED ACTIVITIES

The purpose of this application is to authorize the following proposed activities:

Dredging – The dredging component of the Phinneys Harbor Marina Reconfiguration Plan is to maintenance dredge within the reconfiguration zone primarily in areas maintenance dredged previously. Four areas are to be maintenance dredged; they are:

1. Realignment of the boat ramp Areas 1A and 1B will remove 500 and 1,100 cubic yards within the area previously dredged under the 1955 DPW Contract #1487 covering 5,800 square feet and 7,600 square feet respectively. Subsequently portions of the existing boat

*Environmental Notification Form
Phinneys Harbor Marina Reconfiguration
Bourne, Massachusetts*

ramp were dredged 1981 (1,175cys) and in 2006 (2,500cys). Borings from sieve analysis in this area identify sands suitable for beach nourishment.

2. Southerly portion of the marina previously dredged by the Town of Bourne in 1975 in the amount of 500cys USACOE Permit MA-POCA-77-099 in the same footprint is proposed. This was approved under an RDA by the Bourne Conservation Commission 1/23/77 (after the fact). This will again be dredged to -4 pay 5. Spoils in this area will be disposed of at the Town of Bourne Landfill and partially used for beach nourishment.
3. The central portion of the marina will be dredged in accordance with the 1955 dredge permit #1487 to a depth of -8 pay 9 covering 51,000 square feet and removing 4,376 cubic yards of sands suitable for beach nourishment but with a small portion proposed to be disposed of as daily cover at the Bourne Landfill, (1,275cys).
4. The eastern portion of the site is classified as maintenance dredging 500cys and improvement dredging in the amount of 1,000cys. The improvement dredging is to remove 1,000cys of dredge spoil deposited east of the marina jetty under DPW contract #1487 in 1955.

Please review Table #1 for more information:

Table 1.0 Dredge Areas

Location	Maintenance Pay Depth (Volume)	Improvement Pay Depth (Volume)	Square Footage	Volume CYS	Disposal	Permit #
Area 1A Boat Ramp	-8 Pay 9 (500cys)	-	16,000	500	Beach Nourishment 500cys	DEP Waterways 1194
Area 1B Boat Ramp	-8 Pay 9 (1,100cys)	-	7,600	1,100	Beach Nourishment 1,100cys	Waterways 1194 USACOE NE DOD R- 15-81-449C
Area 2 Southern Marina	-4 Pay 5 (1,200cys)	-	10,700	1,200	Landfill (silts) 1,200cys	USACOE NE DOD P- 11-75-427
Area 3 Interior Marina	-7 Pay 8 (4,376cys)	-7 pay 8 (1,275cys)	51,000	5,651	Landfill/Nourishment 4,375cys /1,295cys	USACOE MA-POCA- 77-099, DPW Waterways 1847
Area 4 East of Jetty	-4 Pay 5 (1500cys)	-	21,200	1,500	Beach Nourishment 1,500cys	1955 DPW Waterways Permit #1847

The Barnstable County Dredge (the Cod Fish) will be used for the proposed dredging of the marina. The Cod Fish is a hydraulic cutterhead dredge, which uses mechanical agitation and suction to dredge material and pump to a receiving beach or dewatering area through a 14-inch discharge pipe. This method of dredging minimizes disturbances to the aquatic environment because once the material is located with the suction device there is no means of escape into the surrounding waters, it is transported quickly to the dewatering site in a closed system. One

dewatering area and temporary storage area is proposed on the coastal beach above the Mean High Water line for processing the dredge material for use as beach nourishment or transport to an upland reuse site or landfill. Upon completion of dewatering activities, the coastal beach will be beach nourished and returned to its similar profile (note: DEP License #11944 issued to the Town of Bourne in 2007, which details the dewatering sites).

Marina Reconfiguration – A marina reconfiguration and expansion is also being proposed. The marina reconfiguration will extend the existing fixed pier and float system 190 feet seaward, float extensions are also proposed on each side parallel to the fixed pier extension, each 4'x190'. The fixed pier will be 8 feet wide and include 9 new finger floats, 4 of which will be 4'x40' and the remaining 5 will be 4'x20'. The existing pier width will be extended to add a new platform and gangways as well as a new 8'x175' main float. The fixed pier will also include a 20'x80' T head which will also act as a wave attenuation diffuser. The extended float system will be 6 feet wide and include 10 new finger floats, 5 of which will be 4'x20' and the remaining 5 will be 4'x30'. The new float extension will also include a 4'x56' T head float which will also act as a wave attenuation diffuser. The new pier and float system will be pile supported with 12" and 24" piles. *Total new square footage is 9,683 square feet of fixed pier floats, ramps, and gangways.*

Please note that a portion of the proposed marina reconfiguration project may classify as a Limited Project under the Massachusetts Wetlands Protection Act (310 CMR 10.00). Under 310 CMR 10.53(3)(j) the following Limited Project is defined: Construction and maintenance of catwalks, footbridges, wharves, docks, piers, boathouses, boat shelters, duck blinds, skeet and trap shooting decks, and observation decks; provided, however that such structures are constructed on pilings or posts so as to permit the reasonably unobstructed flowage of water and adequate light to maintain vegetation. Also the northern concrete wave attenuation float system (250' x 8') will be seasonal, qualifying for a Section 10A Harbormaster Permit.

Boat Ramp – The existing boat ramp onsite is located off Emmons Road and adjacent to the parking area. The existing ramp has been a hazard to its users because of the tight maneuvering required to use the boat ramp. Users must turn around in the parking lot then back down Emmons Road and turn down the boat ramp on the narrow road. This also creates a hazard to vehicles traveling on Emmons Road as trucks with trailers and boat are frequently backing down the road, parking, and pulling out on the road. Finally, the existing boat ramp is angled toward the marina increasing the risk of boaters using the marina. The existing boat ramp will either be removed to make way for the proposed ramp or remain and will serve as an anchor for a Section 10A float handicapped access with float. Any disturbed areas that remain will be final graded and planted with American Beach Grass (*Ammophila breviligulata*). Upon completion of all work, a guard rail will be installed along Emmons Road.

The proposed boat ramp will be parallel to the marina and at the edge of the parking area. This reconfiguration will create, not only safe passage for vehicles, but also for boaters utilizing the ramp and marina. The reconfiguration will bring a straight access to the water from the parking area instead of using Emmons Road as well as a large ramp to increase safety while loading and unloading boats. The larger ramp will also allow for multiple vehicles to access the ramp reducing congestion in the waiting area. The proposed boat ramp is a concrete ramp 165'x46' with riprap stones to protect the outer edge. The proposed ramp also includes 8 (eight) 6'x16' floats and 8 pilings on both sides to allow for a safe tie up of boats for loading and unloading as well as boaters waiting to use the ramp. An optional Section 10A floating handicapped pier and float will also be designed to provide handicapped access and would be positioned along the western side of the existing boat ramp.

Parking Lot – The existing parking lot for the site is degraded and needs to be regraded and repaved. The proposed project will remove, pulverize and regrade the existing pavement, install an updated stormwater system, and repave the parking lot with a new layout within the existing footprint. The new lot will update the degraded lot and reconfigure the lot for safe usage of the proposed boat ramp. This will include lighting, utilities upgrade, septic system upgrade, and Harbormasters bathhouse maintenance. Please refer to page 2 of the ENF for details.

4.0 WETLAND RESOURCE AREAS

The marina and boat ramp reconfiguration associated with this project will result in the temporary disturbance to wetland resource areas, as defined in the Massachusetts Wetlands Protection Act and its Regulations at 310 CMR 10.00. During preparation of the ENF and in the analysis of alternatives and impacts, the primary focus has been on these potential temporary impacts.

Land Under the Ocean (310 CMR 10.25)

Proposed activities will result in the disturbance to land under the ocean. Best available measures have been incorporated into the construction operations. The proposed dredging, removal of the boat ramp, installation of the boat ramp, and pilings needed for the marina reconfiguration will be performed between October 1st and February 15th to avoid reducing marine productivity. This will protect the spawning periods for species such as Herring, Alewives, Flounder, White Perch, American Eel, and Tautog. Maintenance dredging will create the largest disturbance for Land Under the Ocean. However, the disturbance will be minimized by using best available techniques such as the Barnstable County Dredge (the Cod Fish). The Cod Fish is a hydraulic cutterhead dredge, which uses mechanical agitation and suction to dredge material and pump to a receiving beach or dewatering area through a 14-inch discharge pipe. This method of dredging minimizes disturbances to the aquatic environment because once the material is located with the suction device there is no means of escape into the surrounding waters, it is transported quickly to the disposal site in a closed system. During dredging any shellfish displaced will be removed from the spoils and returned to Phinneys Harbor.

There are no long-term anticipated impacts to Land Under the Ocean.

Coastal Beach (310 CMR 10.29)

Impacts to Coastal Beach are anticipated to be minor. The only work proposed along the Coastal Beach is the possible removal and reconstruction of the boat ramp and the construction of dewatering basins for dredge spoils. The existing ramp, if it is to be removed, will be removed using crane and excavator equipment at low tide to reduce the amount of sediment deposition into Land Under Water. All debris will be immediately removed from the resource area and placed in a roll-off dumpster to be removed from the site. Also a silt curtain will be used to trap and suspended sediments which are created from the disturbance. The new ramp is proposed adjacent to the existing ramp. The new ramp will be repositioned in order to reduce the need to navigate into and out of the ramp at an angle. This will increase safety while navigating the area by creating additional distance between the ramp users and the marina users.

Any disturbed areas created during the repositioning of the boat ramp will be graded and nourished to match the surrounding beach and planted with American Beach Grass.

Land Containing Shellfish (310 CMR 10.34)

Land Containing Shellfish has been identified within Phinneys Harbor. Types of shellfish found in this area include Soft Shell Clams (*Mya arenaria*), and Quahogs (*Marcenaria mercenaria*). The proposed installation of additional pilings and the repositioning of the boat ramp (mostly above Mean Low Water) will have minimal subsurface impacts. The majority of the impacts will be associated with dredging. The area in and around the work zone has been opened to shellfishing to reduce the population which could be impacted. Any impacts with the project area will have a limited effect to shellfish do to the schedule of proposed activities; shellfish are deeper in the soil during winter months and work will be complete prior to seed dispersal. During dredging the Bourne Shellfish Warden will be onsite to monitor the removal and relocation of any shellfish from the dewatering basin located on the beach.

5.0 NATURAL RESOURCE AREAS

Principle impacts to Natural Resource Areas as a result of the Phinneys Harbor Marina, dredge, and Boat Ramp Project include those related to marina and harbor activities. The extent of anticipated wetland alterations would consist of short-term, temporary pile driving and ramp removal and construction, and dredging related disturbances summarized in Table 2.0 below.

Table 2.0 - Environmental Impacts

RESOURCE	IMPACT
Fisheries	No significant impact to fisheries. Construction activities will be conducted during the period between October 1 st and February 15 th in order to avoid spawning periods of fish.
Shellfish	The proposed project will have a limited impact to shellfishing beds located within Phinneys Harbor. The shellfish, if observed, will be removed and replanted in accordance with the Town of Bourne's Shellfish Management Program. This area has also been open to shellfish harvesting to reduce the population in preparation for this project.
Eelgrass	According to a study performed by BSC Professional Wetland Scientist and Massachusetts GIS mapping services, no eelgrass resources are located within the project area. For more information, please refer to the MassGIS Eelgrass Map attached.
Waterfowl	No impacts.
Shore birds	No impacts.
Wetlands	Construction activities will impact regulated sub-tidal and inter-tidal resource areas including Land Under the Ocean and Coastal Beach. Impacts created from the new boat ramp will be a mirror increase from existing impacts. The proposed parking lot will be located within the existing footprint. The reconfiguration of the marina will have minor additional impacts as it is merely an extension of what is existing onsite and may qualify as a Limited Project. Dredging in this area has been ongoing since 1955. The newly proposed area for dredging should have a minimal overall impact.

Shellfish Beds

BSC performed an extensive shellfish survey along the shoreline of Monument Beach. This shellfish survey revealed little to no shellfish landward of the Mean High Water line along Monument Beach and moderate numbers of Soft Shell Clams (*Mya arenaria*) and Quahogs

(*Mercenaria mercenaria*) within the location of the marina reconfiguration area and the seaward portion of the proposed boat ramp. Prior to and during construction activities, any shellfish found will be removed and will be replanted within the Phinneys Harbor ecosystem in accordance with the Town of Bourne Shellfish Management Program. The removal and replanting operations will be conducted under the Town of Bourne Shellfish Warden (Timothy Mullen). As part of the Notice of Intent process, two in depth shellfish surveys were completed and submitted to the Town of Bourne Conservation Commission which were used in the review process which ultimately resulted in an Orders of Conditions approving the project.

An eelgrass survey performed by BSC's Professional Wetland Scientist found no eelgrass resources within the vicinity of the proposed marina reconfiguration or boat launch footprints. The absence of eelgrass within the project locus is also confirmed by MassGIS data (please refer to the MassGIS Eelgrass Map attached).

Fisheries

Marina, dredging, and boat ramp impacts to fisheries resources in the project area are not expected to be significant. All work will be performed during the winter months when fish activities are low, which will also avoid the spawning period. Silt curtains will be deployed to trap suspended sediment within the work area. The boat ramp activities performed below mean high water will be performed during low tide when applicable to help reduce turbidity. Reference is made to the Division of Marine Fisheries letter dated March 18, 2009 which was used in planning this project.

Waterfowl

The Phinneys Harbor area serves as a wintering area for a minor number of common waterfowl such as Brant, Edier, Canada Goose, Bufflehead, Old Squaw, Black Duck, Shelldrake, Coot, Teal, and Goldeneye. Many species are noted throughout the year and none are listed as threatened or endangered by the Massachusetts Natural Heritage and Endangered Species program. Construction activities are located within distinct areas and should not impact waterfowl species.

Rare and Endangered Species

A portion of Phinneys Harbor is designated as Estimated Habitat for Rare Wildlife by the Massachusetts Natural Heritage and Endangered Species Program (NHESP) in the 2008 *Massachusetts Natural Heritage GIS Viewer*. Only the reconfiguration of a portion of the proposed marina is located within the mapped area. BSC will submit a MESA Application to NHESP if any NHESP habitat is to be altered. Reference is made to NHESP file # 06-19359 dated April 6, 2009.

6.0 MITIGATION MEASURES

Mitigation measures are to be implemented in order to minimize disturbances to natural and wetland resources areas as a result from construction activities. Such measures include the timing restrictions, minimization of activities, silt curtains, and using the best available technologies. This project will also be conditioned by the DEP through a Chapter 91 Permit, US Army Corps of Engineers through Category II Programmatic General Permit, and Water Quality Certification Amendment.

7.0 SUMMARY

In order to recap the history of the project complete with proposed construction impacts, Table 3.0 is provided.

Table 3.0 - Construction Impacts

	Dredge Volume	Boat Ramp	Pier & Floats	Other
Existing	1959- 27,500cys 1975- 500cys 1975- 1500cys 1981- 1,175cys 1981- 80cys 2006- 2,580cys	3,600s.f. Dredge area 2,300cys	11,670s.f.	Bridge, Septic System, Bathhouse, Nourishment, Water main easement
Proposed	Dredge area #1A 500cys, Dredge area #1B 1,100cys Dredge area #2 1,200cys, Dredge area #3 5,650cys Dredge area #4 1,500cys	Ramp 16,800s.f. Riprap 425s.f Dredge area (area #1 & #2) Maintenance 1,175cys Improvement 425cys	9,683s.f. 2,000s.f. Chapter 10A Harbormaster Breakwater Permit (N/A) DPW Permit 1955 #1847	Septic upgrade, Stormwater upgrade, Bridge abutment repair, Bathhouse repair, Beach nourishment locations Electric Ave- 500cys Monument beach- 5,000cys Gray Gables- 1,975cys
Mitigation	Remove and replace shellfish during dredging, Open site to shellfishing, Timing to prevent impacts to finfish	Plant 1600 square foot Beach Grass (<i>Ammophila breviligulata</i>)	Spacing to allow light passage. Improve water quality and shellfish habitat	New stormwater management system, Upgraded Title V septic system, Handicapped access ramp & float, Realigned boat ramp, Maintain ROW, Force water main to Tobys Island

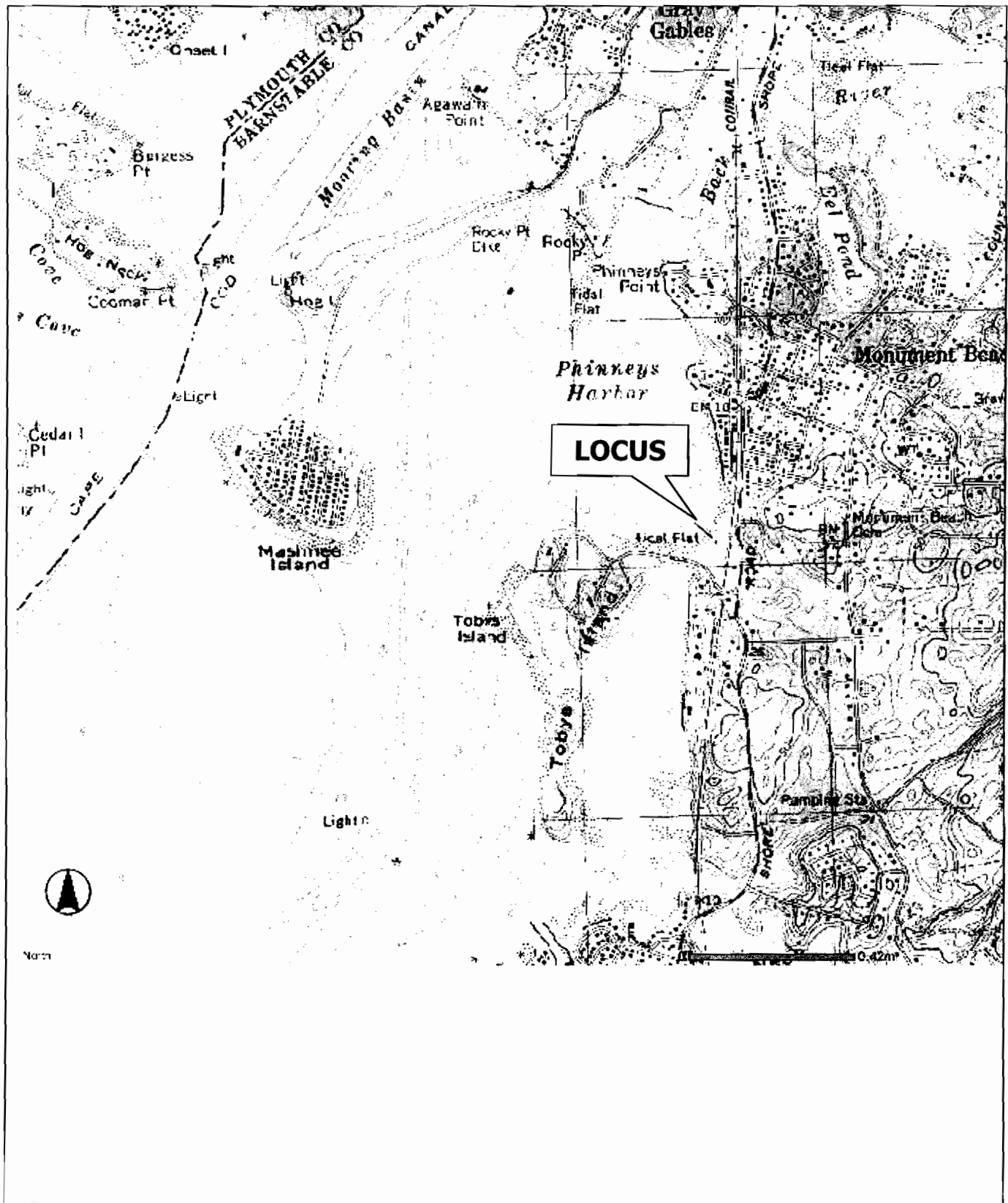
The propose of this submittal is to obtain one comprehensive permit covering all activities (1903-present) promulgated under the regulatory review of DEP 310 CMR 9.39(1)(b) Marina Reconfiguration.

8.0 ALTERNATIVE ANALYSIS

1. No build – existing site cannot meet recreational – commercial shellfish – finfish public safety – navigational access needs.
2. Lack of dredging results in the failure to meet one of the goals of the 2007 Toby’s Island Channel Dredging maintenance project to improve tidal flushing to and from Little Bay.
3. Maintenance and improvement dredging will reestablish the marina depth to the previous depth to accommodate the draft of larger vessels, especially sail boats with deep keels. Dredging will also remove silts, returning much the site to viable shellfish habitat

and to remove dredge spoils placed on land under the ocean as part of the 1955 dredge contract.

4. Improve an out dated parking area, beach and pier to a state of the art facility which would handle the increase in recreational usage of the entire site, including the beach.
5. Place under one license the complete marina facility which would include licensing the complete mooring field, including all maintenance repairs.
6. Improve water quality by capturing storm water runoff and permitting a septic system upgrade to address future needs of the marina and recreation area.



Site LOCUS Map
 Phinneys Harbor, Monument Beach
 Pocasset, Massachusetts