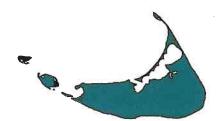
Massachusetts Coastal Infrastructure Inventory and Assessment Project Coastal Hazards Commission

Cape Cod Islands







July 6, 2009

Prepared for:

Massachusetts Department of Conservation and Recreation Hingham, Massachusetts

Presented by:

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Bourne Consulting Engineering

Waterfront Engineers

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Section I

Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

PURPOSE

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS



Massachusetts Coastal Infrastructure Inventory and Assessment Project Coastal Hazards Commission

Section I - Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

The Project and Client

The Commonwealth of Massachusetts has initiated a Coastal Hazards Commission (CHC) to identify the vulnerability of the state to coastal hazards. As one of five working groups working under the CHC, the 20-Yr Infrastructure Plan was to establish a prioritization for the repair of coastal structures. The focus areas of the Working Group include:

- Publicly owned infrastructure
- Infrastructure for which State is responsible
- Inventory of public hazards infrastructure
- Evaluation on conditions
- Development for a prioritization of work
- Estimation of capital and maintenance costs

The 20-Yr Infrastructure Working Group is led by Representative Frank Hynes with CZM as the lead State Agency overseeing the management of the project. The Massachusetts coastline has been broken up into 4 major regions consisting of the North Shore, Boston, South Coast, and the Cape and Islands. The South Shore (the Towns of Hull, Cohasset, Seekonk, Hingham, Plymouth, Kingston, Scituate and Duxbury) was previously evaluated by Bourne Consulting Engineering as a demonstration project in 2006.

Consultant Team

The consultant team that performed the demonstration project was led by Bourne Consulting Engineering (BCE) of Franklin, MA who was responsible for overall project management, specified areas of field assessments, and research. Assisting BCE was Applied Coastal Research and Engineering Inc. of Mashpee, MA, Childs Engineering Corporation, of Medfield, MA., and Waterfront Engineer LLC of Stratham, NH.

PURPOSE

Study Purpose

CZM seeks to identify the capacity of Massachusetts coastal structures to resist major coastal storms and prevent storm damage. In working toward this goal, CZM has initiated a program to perform an assessment of Commonwealth owned and/or maintained coastal structures. The first phase of this program was the performance of a demonstration project for coastal structures located on the South Shore. The demonstration project identified existing structures, their general conditions, ability to provide coastal protection and the probable cost for repairs. The information collected and developed has been incorporated into the MassGIS system to allow use for developing a 20 Year Coastal Infrastructure Plan.

The demonstration project served as a basis for the current statewide inventory assessment of all Commonwealth coastal structures and the needs for their maintenance and/or repair.

Goals of Study

The goals of the Massachusetts Coastal Infrastructure Inventory and Assessment Project include:

- To identify all the coastal structures the state either owns or has responsibility to maintain for the 4 regions included within the study
- Of the structures identified, determine the structure location and characteristics, the structure condition relative to providing coastal protection and the structure importance in relation to what it is protecting.
- To the degree possible, identify the structure elevation and the FIRM mapping flood elevation and category.
- To the degree possible, identify structure owner and available documents from local, state and federal agencies.
- To establish an estimated cost to rehabilitate the coastal structures to provide the level of project established in the structure's original design.
- Provide the information in a format compatible for incorporation into the MassGIS system

Limit of Study

Due to the time constraints and the amount of effort necessary to collect, process and compile the information, the following are identified as limitations of the information presented:

- All property ownership was taken as presumed. No legal investigation of ownership was
 performed during the project. Property ownership is based on town assessor maps. Where
 structures were located outshore of assessor map defined property lines, it was assumed to be
 Town land unless other information indicated otherwise. Where structures were located outshore
 of Mean Low Water, property is assumed to be State owned.
- The structure ownership was based on assessor maps and research at the local, state and federal levels. Where there was indication of public work on a structure on Town land or on private property, the structure was presumed to be Town owned. Where the structure was on state property, the structure was presumed to be state owned. Where ownership of the structure was not clear but was located on private property, the structure ownership was defined as unknown.
- The study included town and state owned structures as it was assumed that most town owned structures received state funding at some level for construction and/or maintenance.
 - o Structures that were determined to be private were not included.
 - O Undocumented structures considered to be on private land, but having the potential to have been publicly built and/or maintained, were identified as having an "unknown ownership".
- The prioritizing of structures was based primarily on risk to general infrastructure and density of housing. Infrastructure included was buildings. The study did not consider all infrastructure issues including:
 - o No consideration on utility impacts water, electrical, sewer, gas
 - o No consideration of roadway and bridge protection
 - o Evacuation routes were not considered within the investigation
 - o Location of Emergency Shelters were not included in priority assessments
- Research was performed at the local, state and federal levels. The local research was limited to
 location and documenting available coastal structure contract drawings. Research at DCR was
 restricted to available historic construction plans for coastal structures at the MA-DCR
 Waterways office in Hingham, MA, and MA-DCR Division of Urban Parks and Recreation in

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Boston, MA. No investigation of state archives was performed. Research at MA DEP Chapter 91 and USACE was limited to recorded permits and licenses found in their files. No investigation was performed at the Registry of Deeds.

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

The specific attributes that would be incorporated into the MassGIS system were developed based on the scope of work and the goals to be achieved. The following was established to standardize the data collection and presentation and to allow total flexibility for sorting by attributes in the final GIS database. The attributes identified below were input into a MS Access database which was used to manage the data from all eight communities within a single file.

Database Attributes

Attribute Descriptions/Definitions

Structure Number: A unique structure number was given to each coastal structure. The number was based on existing numbering systems that include the State Department of Environmental Protection community number followed by the local community assessor's parcel numbering system. The last three digits of the number represent the structure within the parcel. Where structures extend over several parcels, the structure is referenced to a parcel that is approximately in the center of the structure. Where Town assessor's references include letters, those are also included within the structure number. Some communities have block numbering within their numbering system and these are included. Communities without block numbering still have the block numbering included but these are illustrated as all zeros for that specific segment.

Structures that are on Town property, which would otherwise not have a parcel number, are referenced to a parcel that is in the immediate vicinity of the coastal structure.

On this basis, the following is the general numbering convention:

CCC-MMM-BBB-PPP-SSS

Where:	CCC	DEP Community Number

MMM Community Map Number

BBB Block Number (000 if no block numbering system)

PPP Community Parcel Number

SSS Structure Number

<u>Property Ownership</u>: All property ownership was on a "presumed" basis as no legal verification of ownership was performed. The ownership of the property was classified under four basic areas which were private ownership (Private), Town ownership (Local), Commonwealth of Massachusetts ownership (State), federal government ownership (Federal) or unknown. Property ownership was based on Town assessor's maps. Where the location was located above Mean Low Water, and not within a defined parcel, the property ownership was presumed to be the Town unless documentation was found to indicate otherwise. Where a structure was located offshore of Mean Low Water, the property ownership was presumed to be federal.

Structure Ownership: The ownership of all structures is presumed as no verification of ownership was performed. Ownership of the structure was determined by research into historic state and federal

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permits and the entity indicated on the permits as the applicant. Where no other information was found, the following was utilized:

- Structures located on private land but appearing to be significant structures were identified as owned by the Town or as "Unknown". Unknown was used were there was a question of local or private ownership.
- Structures on Town property were assumed to be owned by the Town
- Structures that were located off-shore were presumed to be federally owned
- Structures that were identified as being privately owned were eliminated from the database

<u>Basis of Ownership:</u> The basis of structure ownership was provided to give rationale to the structure ownership and identified the research resource that identified the ownership or the methodology otherwise used. The responses utilized were limited to the following:

- DPW DPW Employee Interview
- DCR Contract Drawings
- DEP Ch 91 License
- USACE Permits
- Property Ownership
- Offshore Structure

<u>Structure Owner's Name:</u> Ownerships names reflect the presumed owner of publicly owned structures. As this was for public structures only, the ownership was restricted to the community name, the state agency or the federal agency.

Earliest Structure Record: The year of the oldest document located for the structure. The information is determined from the document research performed on the structure from local, state and federal agencies. If no documents could be found than this entry is denoted as 'Unknown'. Where documentation of the structure could be found, the date from the oldest document was utilized.

<u>Primary Structure</u> / <u>Secondary Structure</u>: Many of the coastal structures consisted of combined structures which were rated separately. It was typically found that one structure was significantly more predominant (Ex. Bulkhead/Seawall) and was therefore identified as the Primary Structure while a smaller structure might exist in front (ex. Revetment) of it. The type, height and material of each structure are identified separately. The condition of each structure was based on the Primary Structure. Where there was no secondary structure, the fields were left blank.

<u>Structure Type:</u> The structure type was categorized into five basic coastal structure categories which were Bulkhead/Seawall, Revetment, Coastal Beach, Coastal Dune, and Jetty/Groin.

<u>Structure Material:</u> The identification of the coastal structure's material of construction was performed and represents the primary material. Stone structures consisted of both mortared and non-mortared conditions.

<u>Structure Height:</u> Each type of structure was categorized by its visible height in feet which was broken into four specific ranges which are:

< 5 feet 5 to 10 feet 10 to 15 feet >15 feet

Structure Condition: A preliminary assessment of the condition for each structure was performed by the field teams. This was by visual observation only and no detailed investigation was performed. The condition assessments were based on a predefined five level rating system that ranged from Rating A for Excellent Condition to Rating F for Critical Condition. A detailed listing of the conditions and their definitions can be seen in Exhibit A.

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<u>Priority Rating:</u> In order to account for the need for protection at any one site, a five level priority rating system was established. This allowed for consideration of public infrastructure protection, density of residential housing for development of structure overall importance for coastal protection. The ratings range from Level 1 for no infrastructure or residence protection to Level 5 for critical inshore infrastructure protection and/or high density residential. The detailed listing and definitions for the priority categories can be seen in Exhibit B.

Structure Repair / Reconstruction Cost: A preliminary estimation of construction costs to maintain or repair structures was made based on the preliminary field assessment of the structures. A Repair Cost Matrix was developed based on structure type, condition, height and material and can be seen in Exhibit C. Once each structure's type, height, and material classifications were determined, the cost per foot for the structure was determine from the Repair Cost Matrix and multiplied by the length of the structure to obtain the estimated repair/restoration cost. The cost matrix repair costs include a 20 percent construction cost contingency as well as 10 percent costs for engineering and permitting.

Structure Length: The length of each structure is provided and utilized in the development of the repair/reconstruction costs. The lengths are given to the nearest foot and taken as the linear distance along the structure, as determined by the GPS location, which takes into account structure angles and curvature.

Structure Elevation: The elevation of structures was determined in feet from existing information where available. The datum used is NAVD 88 and elevations are to the nearest foot. From a previous study much of the south shore coastal structures had elevations defined based on LIDAR mapping data. Where available structure documentation with elevations was found, in areas with no LIDAR data, the information was included within the structure information. Where there was no LIDAR information or existing documentation, the item has been left blank.

LIDAR (Light Detection and Ranging) is technology that is currently being used for high-resolution topographic mapping by mounting a LIDAR sensor, integrated with Global Positioning System (GPS) and inertial measurement unit (IMU) technology, to the bottom of aircraft and measuring the pulse return rate to determine surface elevations.

<u>FEMA Zone and Elevation</u>: For each structure the FEMA Flood Insurance Rate Maps (FIRM) were researched for their Flood Zone designation and their Base Flood Elevation from the most recent FIRM maps for the specific Town. The elevations are provided in feet on the same datum as the FIRM maps (NGVD) with no adjustments or conversions.

<u>Structure Comments:</u> The engineering team provided a brief description and comment on the structure at the time of the field assessments which is provided in support of the condition rating that was given for the structure.

<u>Pictures:</u> At the time of the field assessments, digital photographs were taken to provide a general overview of the structure. The number of pictures was limited to a maximum of six. The first photograph for each structure is shown on the Structure Assessment Form. The list of all photographs is provided on the form.

<u>Town Documents:</u> Town documents represent the structure information that could be found in the Town's DPW/Engineering Department records. Where particular records could be found, a table of document information was developed and included within the database with limited descriptions.

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<u>MA - DCR Documents:</u> MA-DCR documents represent the structure information that could be found within DCR – Waterways office in Hingham Where particular records could be found, a table of document information was developed and included within the database with limited descriptions.

MA - DEP Chp. 91 Licenses: MA-DEP Chapter 91 license documents represent the structure information that could be found within MA-DEP Chp 91 records in Boston. Where particular records could be found, they were scanned as pdf files and attached to the structure through the GIS database information. In addition, a table of license document information was developed and included within the database with limited descriptions

<u>USACE Permits:</u> USACE Permits represent the structure information that could be found within the Army Corp of Engineers regulatory office in Concord, MA. Where particular records could be found, they were scanned as pdf files and attached to the structure through the GIS database information. In addition, a table of license document information was developed and included within the database with limited descriptions.

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS

A matrix to be used within the database has been developed to assess likely rehabilitation/repair costs to restore the coastal structures to their original design condition. No attempt was made to assess the level of exposure and associated level of protection that might be required to meet current design standards for these structures. These costs are only an estimation to bring these structures back to their original design intent based on 2006 construction costs.

The development of the cost matrix is based on the following:

<u>Structure Condition Ratings</u> – The condition of the coastal structures was determined in the field by the survey crew which was led by an engineer with waterfront structure assessment and design experience. The definitions of the rating criteria utilized for the assessments are presented elsewhere.

The cost implications for each rating condition are as follows:

- A Rating Structures not requiring any maintenance, repair or rehabilitation cost and would not be expected to experience damage if subject to a major coastal storm event
- B Rating Structures requiring limited or no repair and would be expected to
 experience only minor damage if subject to a major coastal storm event. The
 value of these maintenance costs is assumed to be 10 percent of the
 construction cost.
- C Rating Structures requiring moderate to significant level of repair or reconstruction
 and would be expected to experience significant damage if subject to a
 major coastal storm event. The structure is presumed to be effective under a
 major storm event. The value of the repair costs is assumed to be 50 percent
 of the construction cost.
- D Rating Structures requiring significant level of rehabilitation or total reconstruction and would be expected to experience significant damage or possibly fail if subject to a major coastal storm event. The value of the repair costs is assumed to be 100 percent of the construction cost.

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• F Rating Structures requiring complete reconstruction and would expect to provide little or no protection from a major coastal storm event. The value of the repair costs is assumed to be 100 percent of the construction cost plus a cost for removal/disposal of the original structure.

<u>Height of Structure</u> – Height of a structure is a major factor in the structure cost and therefore was identified as a significant factor is assessing rehabilitation/repair construction costs. The structures were broken down into four major categories which were:

< 5'	Structures that were less than five feet in height
5'-10'	Structures five to 10 feet in height
10'-15'	Structures over 10 feet to 15 feet in height
> 15'	Structures greater than 15 feet in height – assumed 20 feet typical

<u>Length of Structure</u> – Length is based on field GPS location with measurements rounded to the nearest foot.

<u>Bulkhead / Seawall Structures</u> – These structures are assumed to be constructed out of concrete, steel, stone or wood with each having its own criteria for establishing costs. For each structure type the following was assumed:

- Concrete Seawalls These walls were assumed to be gravity structures with the volume
 of concrete used based on the bottom width being one-half of the structure height. Costs
 of construction were based on a per cubic yard estimate that varied from \$350 to \$630
 per cubic yard depending on the structure height. Values for excavation and demolition
 of existing structure were also included.
- Stone Seawalls These walls were treated the same as concrete seawalls and assumed to be gravity structures with the volume of the structure based on the bottom width being one-half of the structure height. Costs of construction were based on a per cubic yard estimate that varied from \$350 to \$630 per cubic yard depending on the structure height. Values for excavation and demolition of existing structure were also included.
- Steel Bulkheads Steel bulkheads were presumed to be constructed with steel sheet piling. Tie back systems were presumed for structures 10 feet or greater in height. Shorter walls were assumed to have a cantilever design. The total depth of sheeting was presumed to be two times the exposed height. The cost for construction varied from \$40 per square foot to \$60 per square foot plus the cost of excavation and demolition.
- Timber Bulkheads Timber bulkheads were presumed to be constructed with timber piles at eight foot on center, horizontal wales and vertical four inch sheathing. The unit costs for installed materials used were \$1,500 per pile and \$7.50 per bfm.

Revetment Structures – Revetment structures were presumed to be constructed of dry placed (no concrete) stone with a two on one slope and a horizontal toe and crown equal to the thickness layer established for each height condition. The total thickness of the revetment layers varied from six to ten feet with the cost of armor and under-layer stone assumed to be \$50 per ton and the crushed stone base to be \$15 per ton.

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<u>Groins and Jetties</u> – Groins and jetties were assumed to be the same materials and construction as the revetment structures but would have two sides and therefore double the quantities.

<u>Coastal Beaches</u> – Costs for restoration of Coastal beaches presumed the placement of beach renourishment sands at a 1-on-20 slope over the existing beach conditions. The cost for deposition of sand assumed relatively close source of material and utilized \$20 per cubic yard for the material installed.

<u>Coastal Dunes</u> – Restoration of coastal dunes assumed a cross section of renourished sand with a one-on-four slope on one side of a 25 foot width at the defined dune height. The cost for deposition of sand assumed relatively close source of material and utilized \$20 per cubic yard for the material installed.

<u>Contingency</u> – A contingency of 20 percent was added to all costs to reflect the unknowns associated with this level of rehabilitation/repair estimating.

<u>Engineering and Regulatory Approvals</u> – A ten percent increase to the cost matrix prices was assessed to represent the engineering design and regulatory approval requirements for the restoration of these structures.

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EXHIBIT A

Structure Condition Table – 5 Level Rating System

Co	iminary ndition essment	Definition Based Upon Perceived Immediacy of Action and Potential to Cause Damage if Not Corrected	Level of Action Required
A	Excellent	Like new condition. Structure expected to withstand major coastal storm without damage.	None
		Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm	
_		Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present.	
В	Good	Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure	Minor
C	Fair	Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure.	Moderate
		Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide additional material for full protection and extended life	
D	Poor	Structure exhibits advanced levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure has strong risk of significant damage and possible failure during a major coastal storm Structure should be monitored until repairs/reconstruction can be initiated. Actions taken to reconstruct structure to regain full capacity to resist a major coastal storm.	Major
		Landform eroded, stability threatened. Landform not adequate to provide protection during major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	
		Conditions of structure/landform may warrant emergency stabilization as failure may result in potential loss of property and/or life. Landform eroded, loss of integrity	
F	Critical	Structure exhibits critical levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure provides little or no protection from a major coastal storm. Actions taken to totally reconstruct structure to regain full capacity.	Immediate
		Landform stability is severely compromised, rate of erosion/material loss may be increasing, and landform does not provide adequate protection from a major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	



EXHIBIT B

Priority Rating System - 5 Level Rating System

Pric	eliminary ority Level sessment	Level Based Upon Perceived Immediacy of Action and Presence of Potential Risk to Inshore Structures if Not Corrected	Level of Action Required			
I	None	No Inshore Structures or Residential Dwelling Units Present Long 7 Plann Consider				
п	Low Priority	Inshore Structures Present with Limited potential for Significant Infrastructure Damage	Future Project Consideration			
Ш	Moderate Priority	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)	Consider for Active Project Improvement Listing			
IV	High Priority	High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)	Consider for Next Project Construction Listing			
V	Immediate / Highest Priority	Critical Inshore Structures Present with Potential for Infrastructure Damage and/or High Density Residential Dwellings Conditions of structure may warrant emergency stabilization as failure may result in potential loss of property and/or life. (>10 dwellings impacted / 100 feet of shoreline)	Consider For Immediate Action Due to Public Safety and Welfare Issues			



CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

EXHIBIT C

REPAIR / REHABILITATION COSTING DATA

September 14, 2006

Cost per linear foot of structure

STRUCTURE TYPE	STRUCTURE MATERIALS	STRUCTURE HEIGHT	A	B	RUCTURE CONDITION RA	TING D	E
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
	1	5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	STEEL	Under 5 Feet	\$0	\$54	\$273	\$546	\$680
		5 To 10 Feet	\$0	\$165	\$825	\$1,650	\$1,848
	A STATE OF THE REAL PROPERTY.	10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,772
		Over 15 Feet	\$0	\$343	\$1,716	\$3,432	\$3,795
	STONE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	WOOD	Under 5 Feet	\$0	\$86	\$431	\$862	\$994
		5 To 10 Feet	\$0	\$127	\$632	\$1,265	\$1,463
		10 To 15 Feet	\$0	\$161	\$804	\$1,608	\$1,872
		Over 15 Feet	\$0	\$202	\$1,008	\$2,017	\$2,380
,	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
OASTAL BEACH		5 To 10 Feet	\$0	\$127	\$634	\$1,267	\$1,267
		10 To 15 Feet	\$0	\$224	\$1,122	\$2,244	\$2,244
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$3,960
	SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
OASTAL DUNE	A STATE OF A PROPERTY OF A PRO	5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
		10 To 15 Feet	\$0	\$79	\$395	\$790	\$790
		Over 15 Feet	\$0	\$132	\$660	\$1,320	\$1,320
REVETMENT	STONE	Under 5 Feet	\$0	\$66	\$333	\$664	\$730
		5 To 10 Feet	\$0	\$120	\$601	\$1,201	\$1,300
		10 To 15 Feet	\$0	\$157	\$781	\$1,564	\$1,696
		Over 15 Feet	\$0	\$247	\$1,234	\$2,468	\$2,666
ROIN	STONE	Under 5 Feet	\$0	\$132	\$664	\$1,328	\$1,460
		5 To 10 Feet	\$0	\$240	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$314	\$1,564	\$3,128	\$3,392
		Over 15 Feet	\$0	\$494	\$2,468	\$4,937	\$5,333

NOTE: Repair / Rehabilitation Costs include 10% for engineering and regulatory approvals and 20 % construction contingency.



Section II

Nantucket



Section II - Community Findings - Town of Nantucket

COMMUNITY DESCRIPTION

The Town of Nantucket consists of a land area of 47.78 square miles out of a total area of 82.75 square miles and had a population of 9,520 in the 2000 census. The Town is located in Nantucket Sound of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 62.5 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Nantucket, there were 10 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 4 in Section II-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Nantucket

-	Total		S	tructure Condit	ion Rating		 -
Primary Structure (1)	Structures	Α	В	c	D	F	Total Length
Bulkhead / Seawall	6	2	2	2			2485
Revetment							
Breakwater	1		1				190
Groin / Jetty							
Coastal Dune							
Coastal Beach	3	1	2				2357
	10	3	5	2			5032

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Nantucket's case there are a total of 7 structures which would require approximately \$ 1.1 million to bring all the coastal structures to "A" Rating. There are no structures in the "D" or "F" classification that are in need of immediate replacement or repair.

BCE

II-A-1 Town of Nantucket

STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Nantucket

	Total		St	ruct	ure Condit	ion R	ating	_			
Primary Structure (1)	Structures	Α	В		С		D		F	To	tal Cost
Bulkhead / Seawall	6		\$ 830,636	\$	230,835					\$	1,061,471
Revetment			•		,					\$	-
Breakwater	1									\$	_
Groin / Jetty										\$	_
Coastal Dune										\$	_
Coastal Beach	3		\$ 60,060							\$	60,060
	10	\$-	\$ 890,696	\$	230,835	\$		\$		\$	1,121,531

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Nantucket the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Nantucket

-	Total		S	truct	ure Conditi	on Rating			
Primary Structure (1)	Structures	Α_	 В		С	D	 F	Tot	al Cost
Town Owned	9		\$ 88,242	\$	230,835			\$	319,077
Commonwealth of Massachusetts	1		\$ 802,454		,			\$	802,454
Federal Government Owned								\$	-
Unknown Ownership								\$	-
	10	\$-	\$ 890,696	\$	230,835	\$ -	\$ 	S	1,121,531

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section II-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Nantucket's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

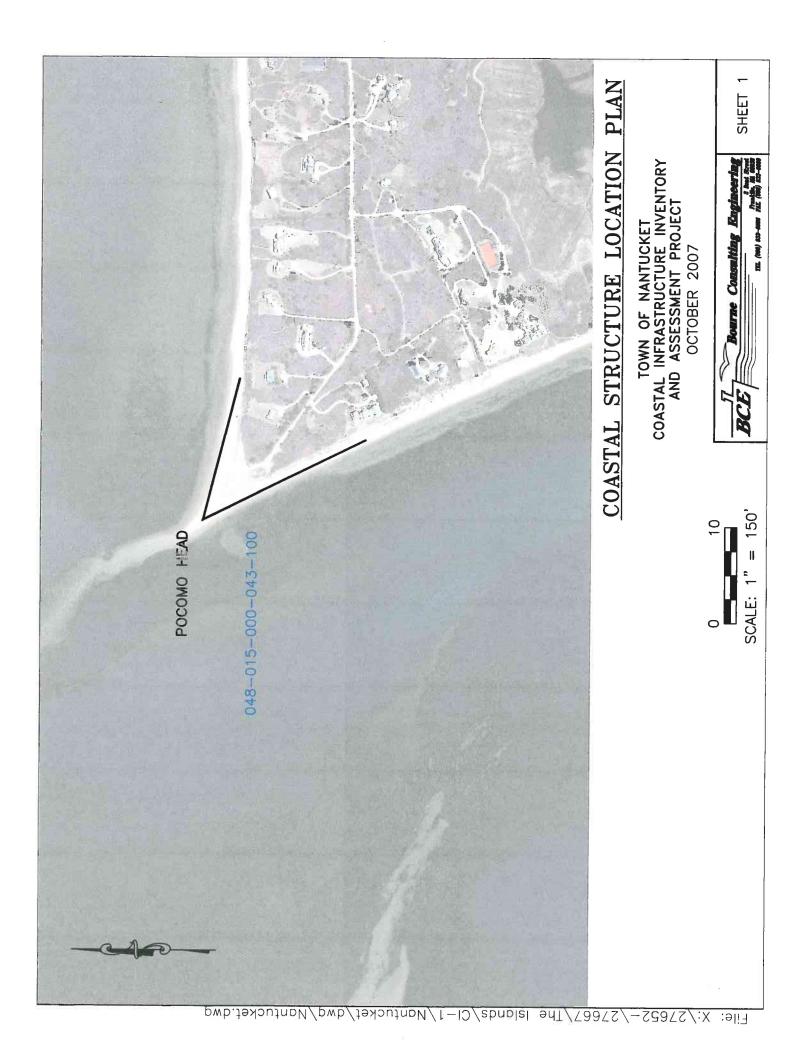


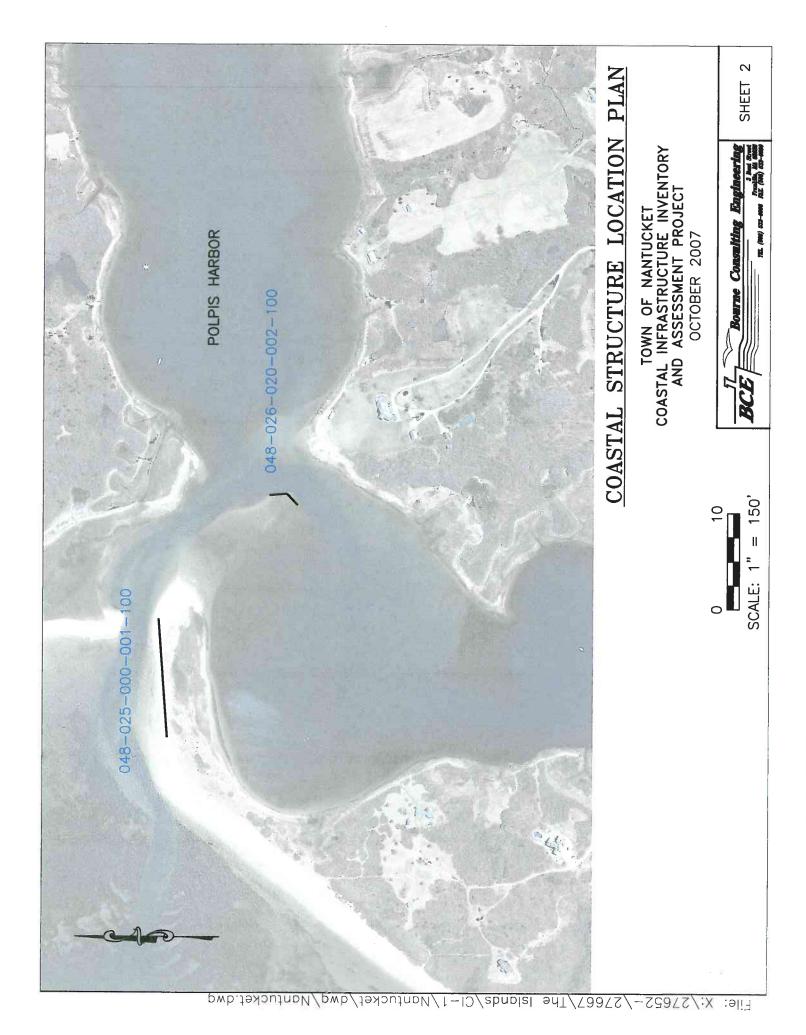
Section II - Nantucket

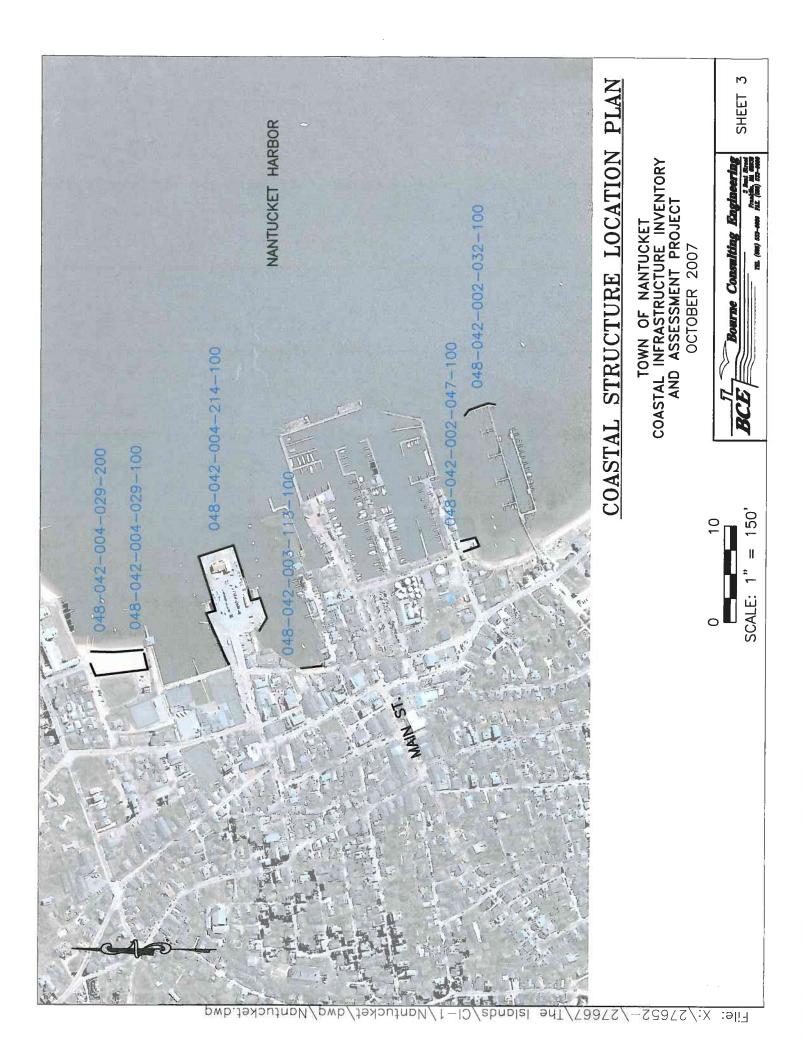
Part B

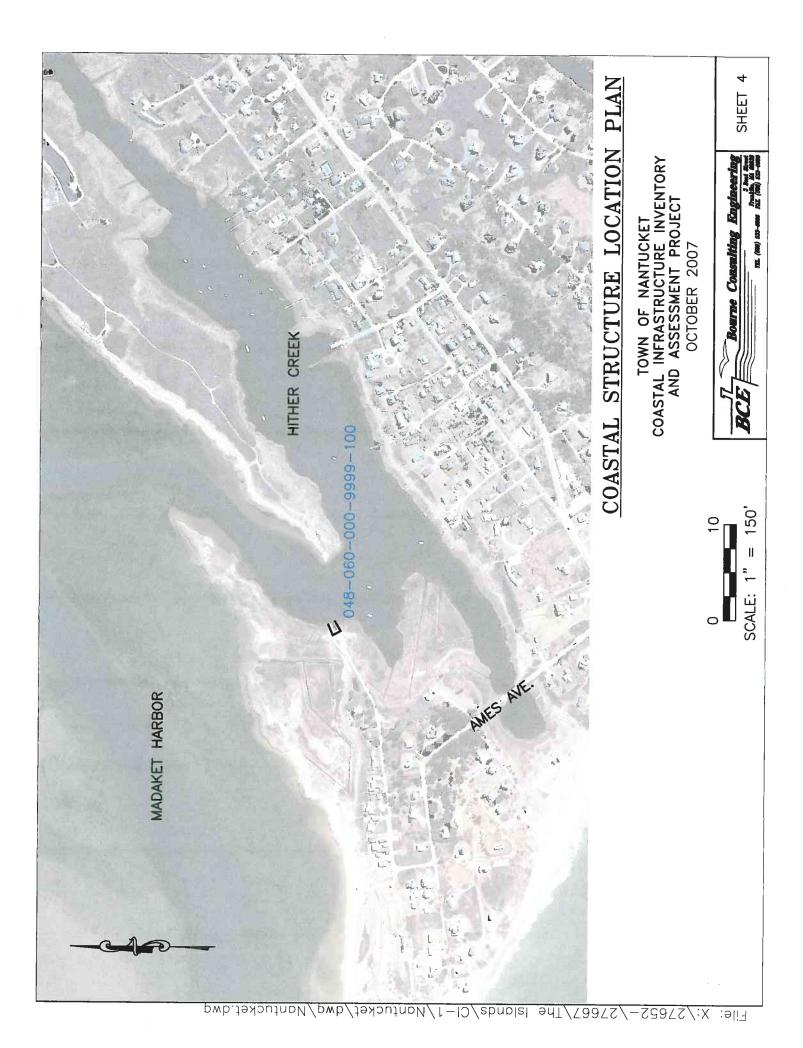
Structure Assessment Reports











Structure Assessment Form

Town: Nantucket

Structure ID: 048-015-000-043-100

Property Owner:		Location:		Da	te:
_ocal		Pocomo Hea	nd		9/19/200
resumed Structure	th: Top Elevation: FIRM Map Zone 1675		omment:		
ocal			<u> </u>		
wner Name:		Earliest Stru	cture Record:	Estimated Recor	nstruction/Repair Cost:
antucket		1993			\$44,220.00
	evation: FIRM Map Zo	ne: FIRM Map Eleva	ation:		
į		A 5	8		
Feet Feet N	AVD 88	Feet No	GVD		
imary Type:	Primary Material:	Primary Height:			
oastal Beach	Sand	Under 5 Feet			
econdary Type:	Secondary Material:	Secondary Heig	ht:		
ructure Summarv	':				· 公司 上 三 日
Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.		cture / landform n from a major e. Actions taken	Description	Units Present	
ructure Image		Structure Docume			
8-015-000-043-10		USACE	December 1 Nant	ucket Harbor 048-015-00	0-043-100-COE1A
l8-015-000-043-10	JU-PHO1B.JPG				

Structure Assessment Form

Town: Nantucket

Structure ID: 048-025-000-001-100

Property Owner:			Location:			Date:	
Local			Polpis Harbor			9/19/2007	
Presumed Structur	e Owner:		Based On Com	ment:			
Local							
Owner Name:			Earliest Structu	ire Record:	Estimated Reconstruction/Repair Cos		
Nantucket			Unkown	1000.41	Samuel	\$15,840.00	
	levation: FI	RM Map Zone:		<u></u> -			
600	141/75 000	A!		8		A STATE OF THE STA	
	IAVD 88		Feet NGV	D			
Primary Type: Coastal Beach	Primary M Sand	laterial:	Primary Height: Under 5 Feet	<u></u> .			
	,		•				
Secondary Type:	Secondary	material:	Secondary Height				
ı Structure Summan	, .		4				
		Harbor. It is e	venly graded with san	d dunes covered	in dune grass behind		
			voin, grada viar our	a dance covered	in danc grass berind.		
C 1:4:	D			***			
Condition Rating	B Good			Priority Rating	l None		
Level of Action	Minor			Action	Long Term Planning C	Considerations	
Description	20,000,000		Minor erosion re / landform rom a major Actions taken	Description	No Inshore Structures Units Present	or Residential Dwelling	
Structure Image		Sti	ructure Document	s:			
948-025-000-001-1	00-PHO1A.JPG						

Structure Assessment Form

Town: Nantucket

Structure ID: 048-026-020-002-100

Key: community-map-block-parcel-structure Property Owner: Location: Date: Local Polpis Harbor Bulkhead 9/19/2007 Presumed Structure Owner: Based On Comment: Local Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: Nantucket Unkown \$28,182.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 175 **A5** Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Wood 10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Structure Summary: Timber bulkhead in Polpis Harbor 100 yards off shore. Thebulkhead prevents the channel from filling in. The bulkhead is supported with timber piles and the planks are 1 foot wide. The bulkhead looks to be fairly new construction. Condition В **Priority** Rating Good None Rating Level of Action Minor Long Term Planning Considerations Action Description Structure observed to exhibit very minor Description No Inshore Structures or Residential Dwelling problems, superficial in nature. Minor erosion **Units Present** to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: 048-026-020-002-100-PHO1A.JPG 048-026-020-002-100-PHO1B.JPG

Structure Assessment Form

Town: Nantucket

Structure ID: 048-042-002-032-100

Property Owner:	Locatio	n:	Date:
Local	Town Pie	er	9/19/2007
Presumed Structure Owner:	Based On	Comment:	
Local			
Owner Name: Nantucket	Earliest S	tructure Record:	Estimated Reconstruction/Repair Cost: \$65,170.00
Length: Top Elevation: FIRM Map Zone 190 Feet Feet NAVD 88 Primary Type: Primary Material: Breakwater Steel Secondary Type: Secondary Material: Structure Summary: Steel wave fence with timber face protecting town	Primary Heig Over 15 Fee Secondary H	10 : NGVD pht: t	
Condition B Rating Good Level of Action Minor Description Structure observed to exhibit very problems, superficial in nature. to landform is present. Structure adequate to provide protection coastal storm with no damage. to prevent / limit future deteriors life of structure.	Minor erosion ire / landform from a major Actions taken	Priority Rating Action Description	III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
048-042-002-032-100-PHO1A.JPG	tructure Docur SACE SACE EP	May 21, 197 Prop April 30, 197 Plan	osed Piers, Float 048-042-002-032-100-COE1A Accompanying 048-042-002-032-100-COE1B Accompanying 048-042-002-032-100-LIC1A

Structure Assessment Form

Town: Nantucket

Structure ID: 048-042-002-047-100

Property Owner:		Location:		Date:	
Local	And the second s	Petrel Landin	g	The state of the s	9/2007
Presumed Structur	re Owner:	Based On Co	mment:	1	
Local	e owner.	Based Oil Col	milenc.		
Į					
Owner Name: Nantucket		Earliest Struc	ture Record:	Estimated Reconstruction/Repair	
Indittucket		Unkown		\$151,8	00.00
Length: Top E	Elevation: FIRM Map Zone	: FIRM Map Eleva	tion:		NAME OF TAXABLE PARTY OF TAXABLE PARTY.
200	V	8	10		
Feet Feet	NAVD 88	Feet NG	VD		
Primary Type:	Primary Material:	Primary Height:			
Bulkhead/ Seawal		5 to 10 Feet	-		
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
, , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Structure Summar	v :	-			
Stone bulkhead wi	ith 3 feet by 2 feet by 2 feet stone	es on average. Stone	es set at a 1 on 1 sl	ope. There is no visible scour at the toe. Mode	rate
erosion behind the	e bulkhead. Back filled with sand	and gravel. There is i	moderate stone mo	vernent and concrete repair areas.	
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Consideration	
•		king, spalling, source adequate in with little to en to reinforce on from major life of ve damage to not be sufficient a major coastal addition	Description	Inshore Structures Present with Limited potential for Significant Infrastructure Dama	ge
Structure Image 048-042-002-047-1 048-042-002-047-1	00-PHO1A.JPG	ructure Documer	nts:		4

Structure Assessment Form

Town: Nantucket

Structure ID: 048-042-003-113-100

Property Owner:		Location:		Date:
Local		Easy Street	7.	9/19/2007
Presumed Structure	e Owner:	Based On Con	nment:	·
Local				
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
Nantucket		Unkown		\$79,035.00
125	levation: FIRM Map Zone: V8 IAVD 88 Primary Material:	FIRM Map Elevati Feet NG\ Primary Height:	10	
Bulkhead/ Seawall		5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height	:	
Structure Summary		he toe Miner cocti	an loca/deteriorati	ion on wood near toe. Behind the structure is a side
walk and road.	in steel cap. There is no scoul at t	ne toe. Millor secu	on ioss/deterioradi	ion on wood hear toe. Benind the structure is a side
Condition Rating	C Fair		Priority Rating	II Low Priority
Level of Action	Moderate		Action	Future Project Consideration
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not fully protect shoreline during a nistorm. Actions taken to provide admaterial for full protection and extending the structure of the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	Inshore Structures Present with Limited potential for Significant Infrastructure Damage
Structure Image 048-042-003-113-10	00-PHO1A.JPG	cture Documen	ts:	

Structure Assessment Form

Town: Nantucket

Structure ID: 048-042-004-029-100

.

		Location:			Date:	
Local		Children's Bead	Children's Beach			
Presumed Structure Owner:		Based On Com	Based On Comment:			
Owner Name:		* Earliest Structu	re Record:	Estimated R	econstruction/Renair Cost	
Nantucket		1971			Estimated Reconstruction/Repair Cost: \$0.00	
	Elevation: FIRM Map Zo		FIRM Map Elevation:			
82 Feet Feet I	NAVD 88	A0	1			
		Feet NGV	ט	Mark and the first	and the second second	
rimary Type: Coastal Beach	Primary Material: Sand	Primary Height: 10 to 15 Feet	_	SA CONTRACTOR		
econdary Type:				State of the last		
ccondary Type.	Secondary Material:	Secondary Height:	-			
tructure Summar	v :				ALEGO I STORY	
Description	Like new condition. Structure withstand major coastal storm Stable landform (beach, dune Adequate system exists to prefrom major coastal storm.	without damage. or bank).	Description	No Inshore Structures of Units Present	or Residential Dwelling	

Structure Assessment Form

Town:

Town: Nantucket

Structure ID: 048-042-004-029-200

Presumed Structure Owner: Unknown	Property Owner:		Location:			Date:
Unknown Owner Name:	Local		Children's Bea	Children's Beach		9/19/2007
Owner Name: Nantucket Unknown Estimated Reconstruction/Repair	Presumed Structure Owner:		Based On Com	Based On Comment:		
Nantucket Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 450 Feet Feet NAVD 88 Feet	Unknown					A CONTRACTOR OF THE PARTY OF TH
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Under 5 Feet Secondary Type: Secondary Material: Secondary Height: Under 5 Feet Secondary Type: Secondary Material: Secondary Height: Wooden seawall behind Children's Beach with Harbor View Way behind it. The wall is 1 foot wide and made up of 12" planks. Condition A Priority II Rating Low Priority II Rating Low Priority Level of Action None Like new condition. Structure expected to withstand major coastal storm without damage. Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm. Structure Images: Structure Documents: O48-042-004-029-200-PHO2A.JPG				ure Record:	Estimated Reconstruction/Repair Cost: \$0.00	
Condition A Rating Excellent Rating Low Priority Level of Action None Action Future Project Consideration Description Like new condition. Structure expected to withstand major coastal storm without damage. Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm. Structure Images: Structure Images: Structure Documents:	Feet Feet N Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary	Primary Material: Wood Secondary Material:	Feet NGV Primary Height: Under 5 Feet Secondary Height	A7 D 		
Rating Level of Action Description Like new condition. Structure expected to withstand major coastal storm without damage. Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm. Structure Images: Structure Images: Structure Documents:	Wooden seawall be	ehind Children's Beach with Harbo	or View Way behind it.	The wall is 1 foo	ot wide and made up of 12"	planks.
048-042-004-029-200-PHO2A.JPG	Rating Level of Action	Excellent None Like new condition. Structure exwithstand major coastal storm v Stable landform (beach, dune o Adequate system exists to prov	vith out dam age. r bank).	Rating Action	Low Priority Future Project Conside Inshore Structures Pre	sent with Limited
048-042-004-029-200-PHO2B.JPG	048-042-004-029-2	00-PHO2A.JPG	ructure Document	rs:		

Structure Assessment Form

Town: Nantucket

Structure ID: 048-042-004-214-100

Property Owner:		Local	tion:	Date:		
State		Steam	iship Wharf		9/19/2007	
Presumed Structur	e Owner:	Based	On Comment:			
State				· · · · · · · · · · · · · · · · · · ·		
Owner Name:		j Endies	at Church up Daniel	F	-	
Steamship Authori	ty	Unkov	st Structure Record:	Estimated Reconstruction	Repair Cost: \$802,454.00	
					φους, 15 1.00	
	levation: FIRM	Map Zone: FIRM Ma	Elevation:			
1360		A7	8			
Feet Feet N	NAVD 88	F	eet NGVD			
Primary Type:	Primary Materi	AND THE RESIDENCE AND ADDRESS OF THE PARTY O				
Bulkhead/ Seawall	Steel	Over 15 I	eet			
Secondary Type:	Secondary Mate					
Revetment	Stone	Over 15 I	eet			
Structure Summan						
Sheet pile bulkhea small section of pla settling.	d with steel cap. Minor aced riprap. The stones a	corrosion at the tidal zo are approximately 3 fee	one. The toe is not visible at by 2 feet and a	to inspect for scour. At the end of the shat a 1 on 1 slope. Minor stone movement	neet pile is a t and	
Condition	В		Priority	III		
Rating	Good		Rating	Moderate Priority		
Level of Action	Minor		Action	Consider for Active Project Improvem	nent	
Description	to landform is present.	n nature. Minor erosion Structure / landform		Listing Inshore Structures with potential for Infrastructure Damage and/or Limited		
	adequate to provide pr coastal storm with no to prevent / limit future life of structure.	otection from a major damage. Actions taken deterioration and exter	nd	Residential Dwellings (<1 dwelling in 100 feet of shoreline)	npacted /	
tructure Image		Structure Do	cuments:			
48-042-004-214-1	00-PHO1A.JPG					

CZM Coastal Infrastructure Inventory and Assessment

Structure Assessment Form

Town: Nantucket

Structure ID: 048-060-000-9999-100

Key: community-map-block-parcel-structure

Property Owner:		Location:		Da	te:
Local		Jackson Poir	t Boat Ramp		9/19/2007
Presumed Structure	e Owner:	Based On Co	mment:		
Local					
Owner News		J			
Owner Name: Nantucket		Earliest Struc	ture Record:	Estimated Recor	nstruction/Repair Cost: \$0.00
		1233			şu.uu
Length: Top E	levation: FIRM Map 2	Zone: FIRM Map Eleva	tion:		
175		AE	8		911
Feet Feet N	IAVD 88	Feet NO	GVD		
Primary Type:	Primary Material:	Primary Height:		10/19	
Bulkhead/ Seawall	Wood	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Heigl	nt:		
Revetment	Stone	Under 5 Feet			
Structure Summary				lumped around bulkhead. The	
Condition	A Excellent		Priority	V	
Rating	Excellent None		Rating	Immediate / Highest Priority	
Level of Action Description	Like new condition. Structur	re expected to	Action	Consider For Immediate Ac Safety and Welfare Issues	tion Due to Public
	withstand major coastal sto Stable landform (beach, du Adequate system exists to from major coastal storm.	ne or bank).	Description	Critical Inshore Structures F Potential for Infrastructure I High Density Residential Do of structure may warrant em stabilization as failure may loss of property and/or life. impacted / 100 feet of shore	Damage and/or wellings Condition nergency result in potential (>10 dwellings
Structure Image 048-060-000-9999- 048-060-000-9999- 048-060-000-9999-	100-PHO1A.JPG 100-PHO1B.JPG 100-PHO1C.JPG	Structure Docume	nts: lov 20 1997 Plan	Accompanying 048-060-00	0-9999-100-COE1A

Section II - Nantucket

Part C

Structure Photographs



SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: NANTUCKET

Structure Condition Photo at Time of Survey Description Structure Location DIGITAL IMAGE JIGITAL IMAGE DIGITAL IMAGE Title October 2007 Date Nantucket Consuting
Bourne
Consulting
Bourne
Consulting
Engineering
En Consulting
Bourne
Consulting
Engineering
Bourne
Consulting
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering Engineering Bourne Entity Contract/ Drawing Number 048-015-000-043-100-PHO1A.jpg 048-015-000-043-100-PHO1B.Jpg 048-025-000-001-100-PHO1A.jpg 048-026-020-002-100-PHO1A.Jpg 048-026-020-002-100-PHO1B.jpg 048-042-002-032-100-PHO1A.jpg 048-042-002-047-100-PHO1B.Jpg 048-042-003-113-100-PHO1B.jpg 048-060-000-9999-100-PHO1A.Jpg 048-060-000-9999-100-PHO1B.jpg 048-060-000-9999-100-PHO1C.jpg 048-042-002-047-100-PHO1A.Jpg 048-042-003-113-100-PHO1A.jpg 048-042-004-029-100-PHO1A.jpg 048-042-004-029-200-PHO2A.jpg 048-042-004-029-200-PHO2B.Jpg 048-042-004-214-100-PHO1A.Jpg Document No 048-015-000-043-100 048-015-000-043-100 048-025-000-001-100 048-026-020-002-100 048-026-020-002-100 048-042-002-032-100 048-042-003-113-100 048-060-000-9999-100 048-060-000-9999-100 048-042-002-047-100 048-042-002-047-100 048-042-003-113-100 048-042-004-029-100 048-042-004-029-200 048-042-004-029-200 048-042-004-214-100 048-060-000-9999-100 BCE Structure No

Structure Condition Photo at Time of Survey

Structure Location

_

DIGITAL IMAGE

October 2007

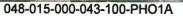
Nantucket

048-060-000-9999-100-PHO1D.Jpg

048-060-000-9999-100

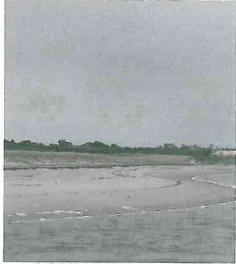
Massachusetts Coastal Infrastructure and Assessment







048-015-000-043-100-PHO1B



048-025-000-001-100-PHO1A



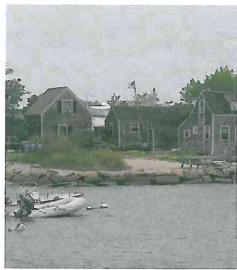
048-026-020-002-100-PHO1A



048-026-020-002-100-PHO1B



048-042-002-032-100-PHO1A



048-042-002-047-100-PHO1A



048-042-002-047-100-PHO1B



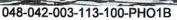
048-042-003-113-100-PHO1A

Massachusetts Coastal Infrastructure and Assessment









048-042-004-029-100-PHO1A

048-042-004-029-200-PHO2A







048-042-004-029-200-PHO2B

048-042-004-214-100-PHO1A

048-060-000-9999-100-PHO1A







048-060-000-9999-100-PHO1B

048-060-000-9999-100-PHO1C

048-060-000-9999-100-PHO1D

Section II - Nantucket

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP – Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Nantucket

TOWN: NANTUCKET SOURCE: Town of Nantucket LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

Description	
Location	
Sheets	
Titia	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

No MA - DCR Documents for the Town of Nantucket

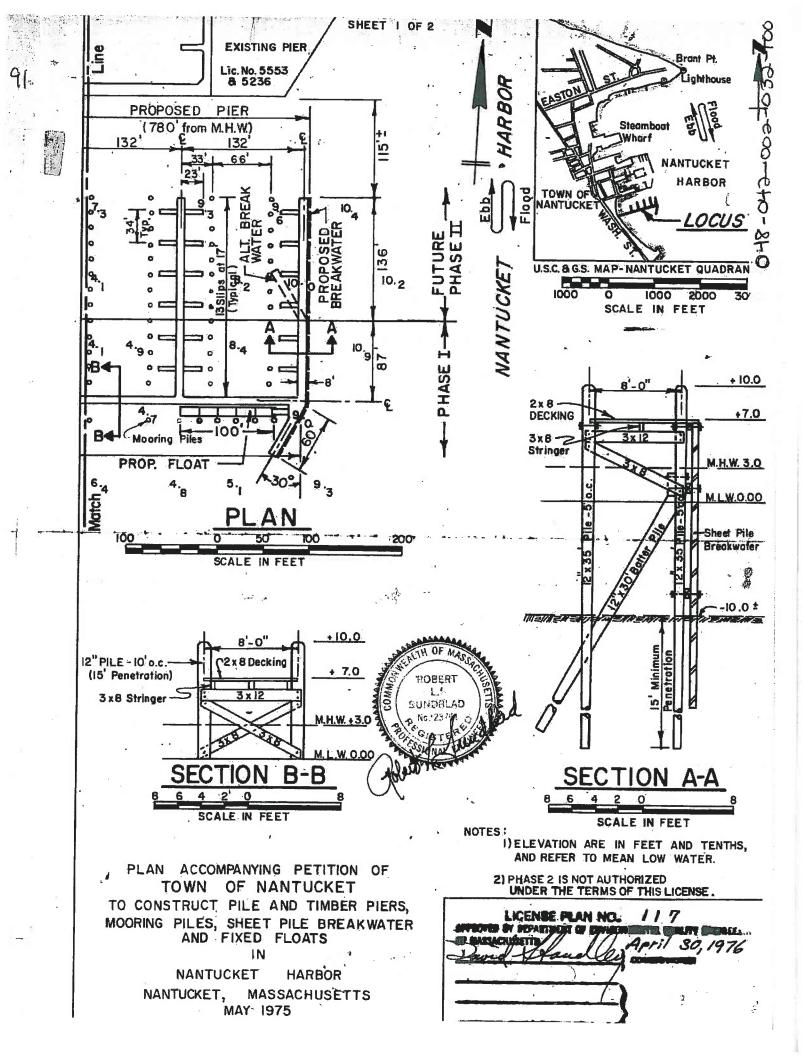
TOWN: NANTUCKET SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

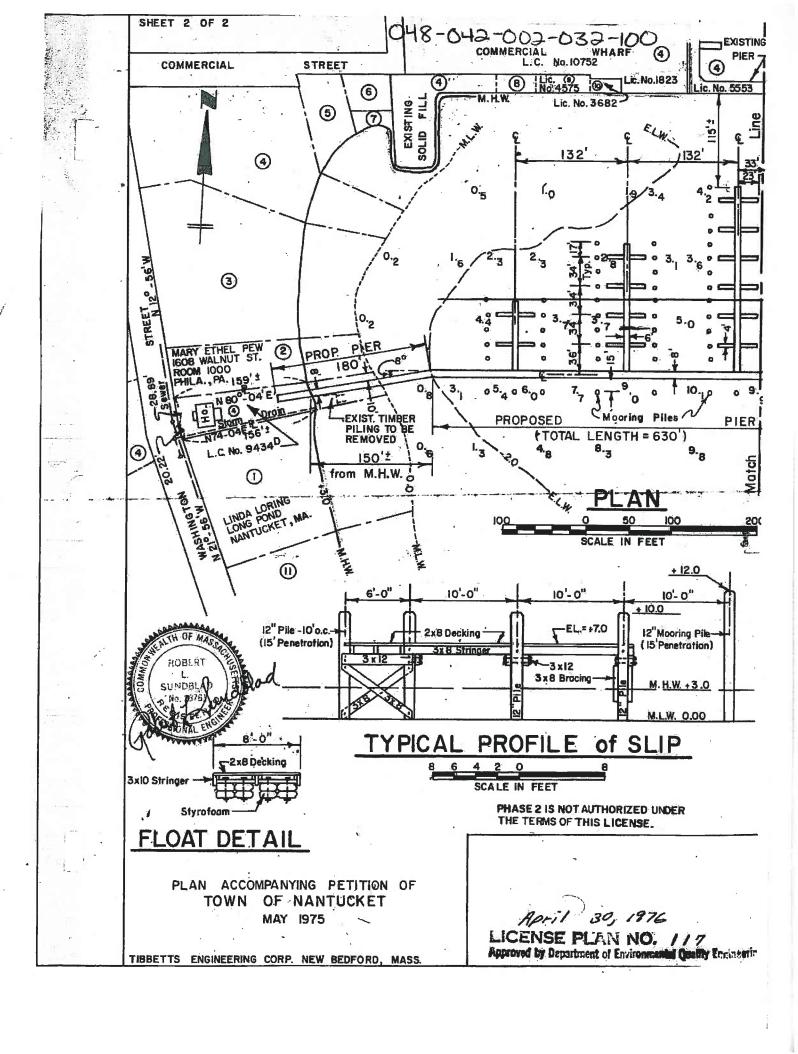
	Description	-	
	Location		
	Sheets		
	Title		
	Date		
	Municipality		
	Entity		
Contract/	Drawing	Number	
	Document No		
	BCE Structure No		

No MA - DEP Ch. 91 Documents for the Town of Nantucket

TOWN: NANTUCKET SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

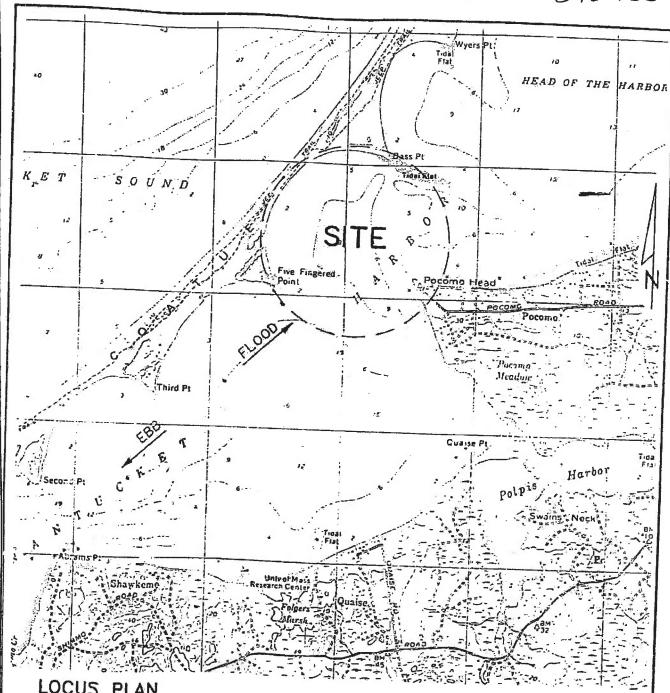
ı							
	Description	Breakwater					
	Location	Town Pler					
	Sheets	2					
	TRIE	Plan Accompanying Petition of Town of Nantucket to Construct Pile and Timber Peirs, Mooring Piles, Sheet Pile Breakwater and Fixed Floats in Nantucket Harbor - Nantucket, MA					
	Date	April 30, 1976					
	Entity Municipality	Nantucket					
	Entity	USACE					
	Contract Drawing Number	117					
	Document No	48-042-002-032-100 048-042-002-032-100-LIC1A					
	BCE Structure No	048-042-002-032-100					





TOWN: NANTUCKET SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Sheets	Location	Description
048-015-000-043-100	048-015-000-043-100 048-015-000-043-100-COE1A	199302876	USACE	Nantucket	December 13, 1993	6	Pocomo Head	Dredge with Renounishment onto Pocomo Head Beach
048-042-002-032-100	048-042-002-032-100 048-042-002-032-100-COE1A	76-342	USACE	Nantucket	May 21, 1975	2	Town Pier	Sheet Pile Breakwater
048-042-002-032-100	048-042-002-032-100 048-042-002-032-100-COE1B	199100311	USACE	Nantucket	May-75	4	Town Pier	Sheet Pile Breakwater
048-042-004-029-100	048-042-004-029-100 048-042-004-029-100-COE1A	72-17	USACE	Nantucket	June 30, 1971	က	Southwest of Brant Point	Nourishment of 116 Cubic Yards Above Mean High Water at Children's Beach
048-060-000-9999-100	048-060-000-9999-100 048-060-000-9999-100-COE1A SE 48-941	SE 48-941	USACE	Nantucket	20-Nov-97	2	Hither Creek	Bulkhead and Riprap Surrounding Boat Ramp



LOCUS PLAN

NANTUCKET HARBOR DREDGING NANTUCKET, MASSACHUSETTS NANTUCKET COUNTY

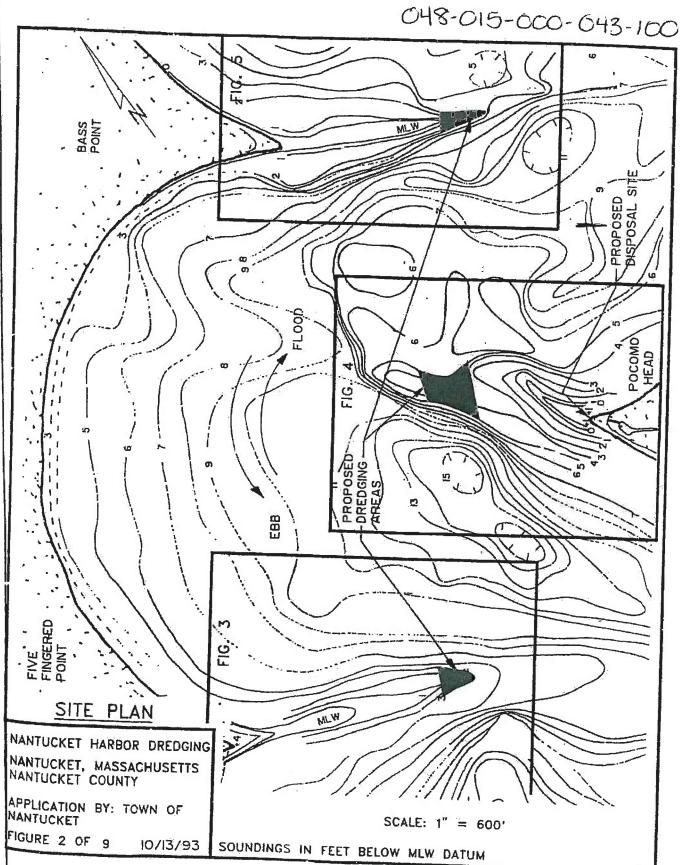
APPLICATION BY: TOWN OF NANTUCKET

GURE 1 OF 9 10/13/93

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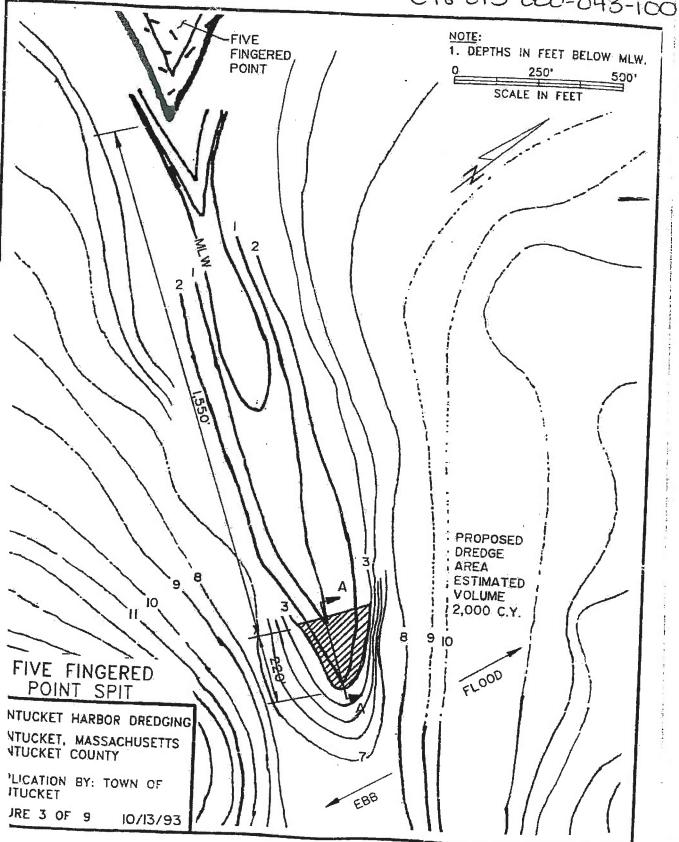
PLAN FROM U.S.G.S. MAP "SIASCONSET, MA" 1972, UPDATED 1977

SCALE: 1" = 2083" ELEVATIONS IN FEET ABOVE NGVD 1929 SOUNDINGS IN FEET BELOW MLW

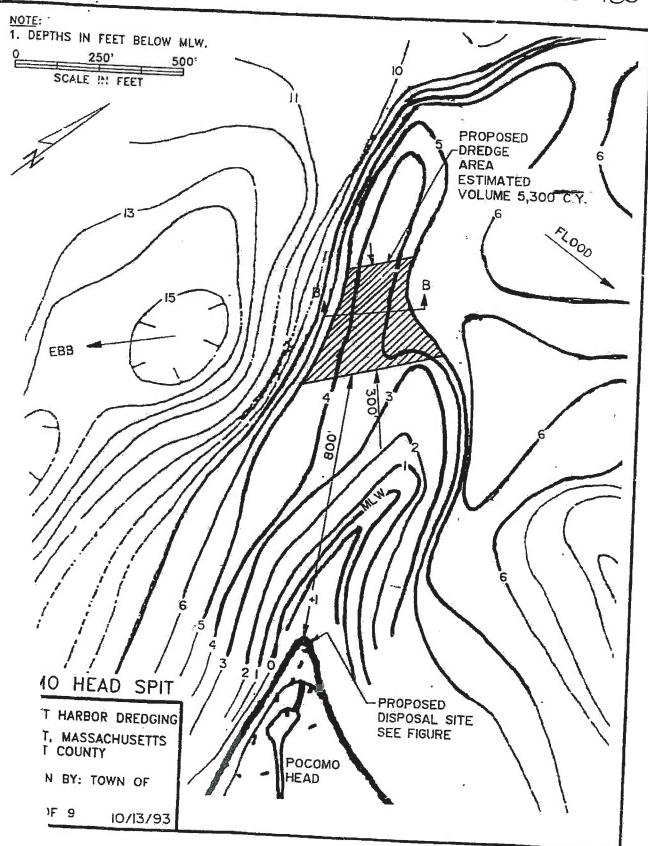


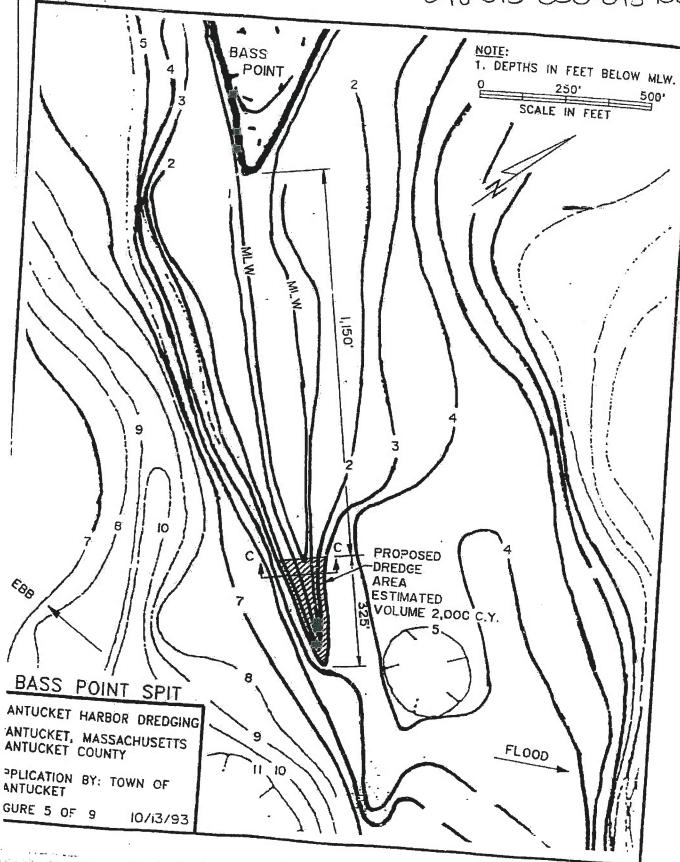
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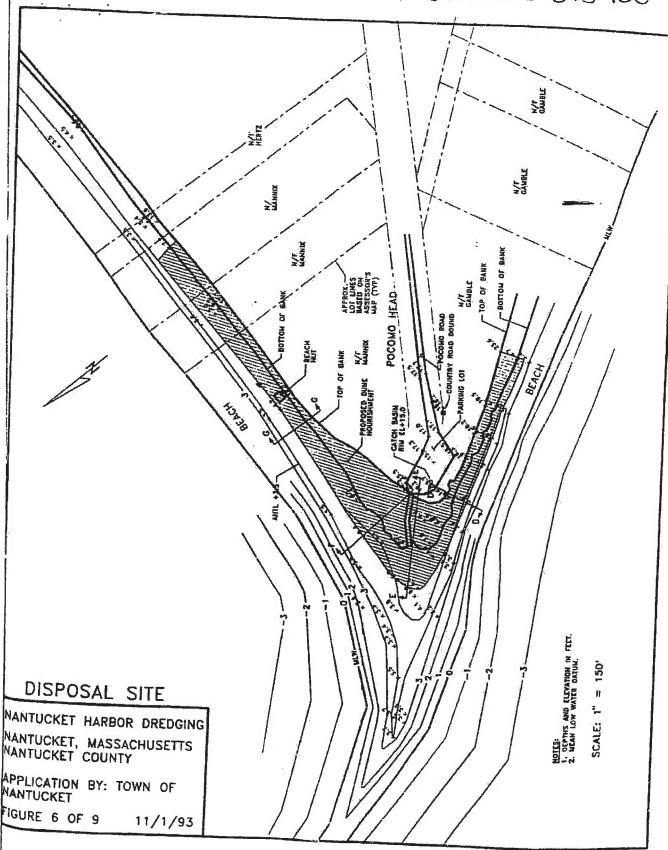
048-015-000-043-100



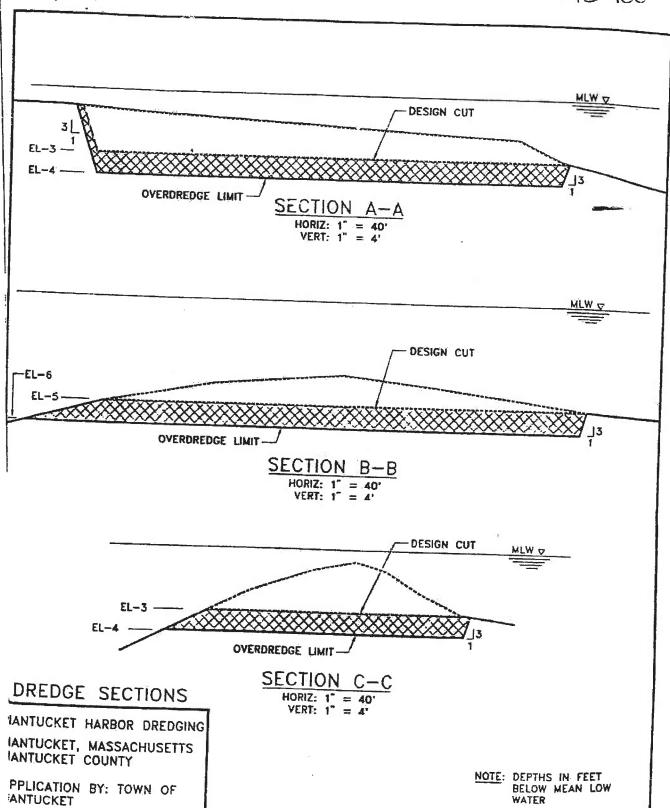
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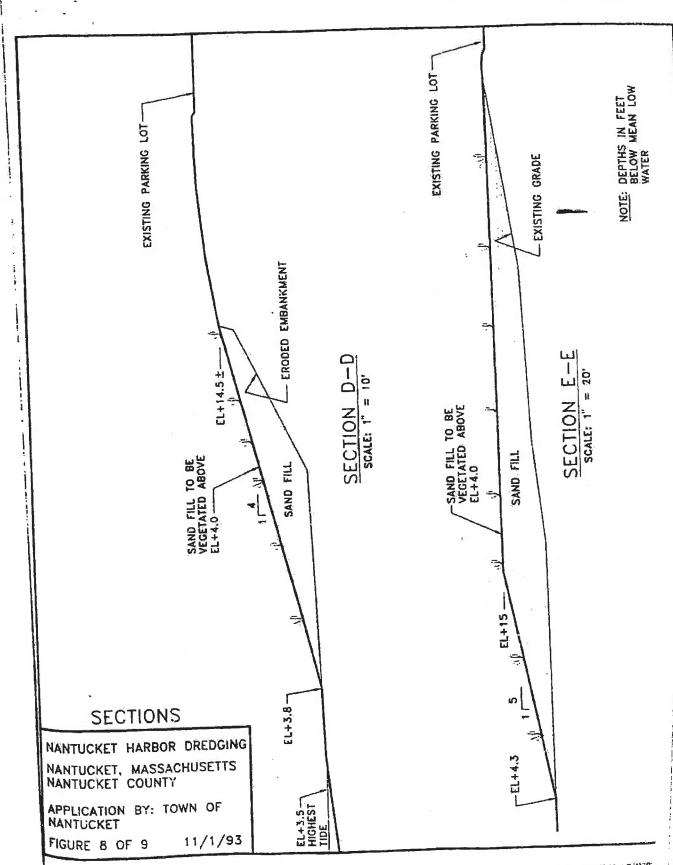
And the second of the second o



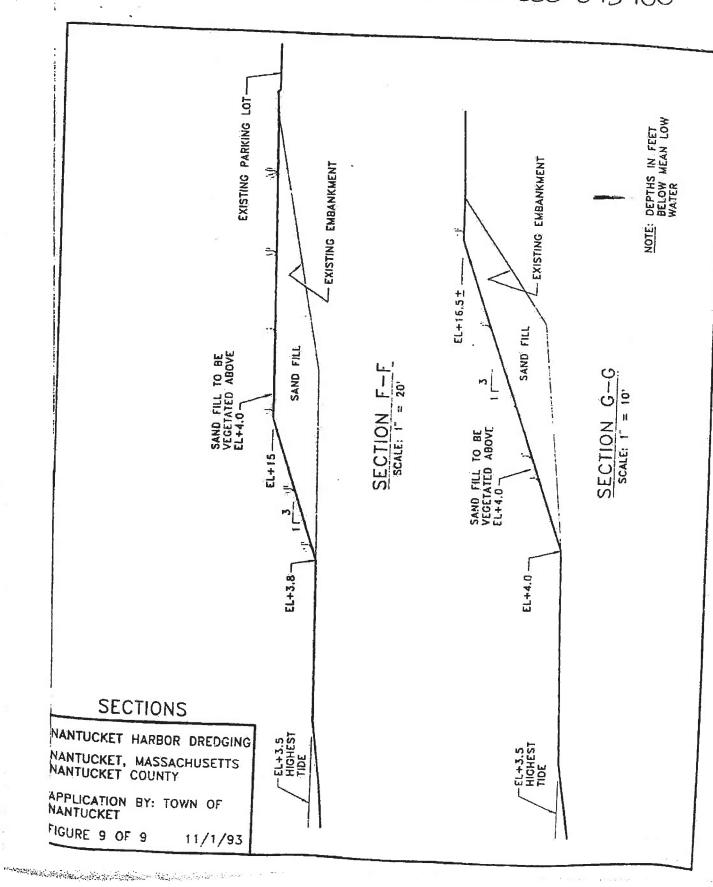
'GURE 7 OF 9

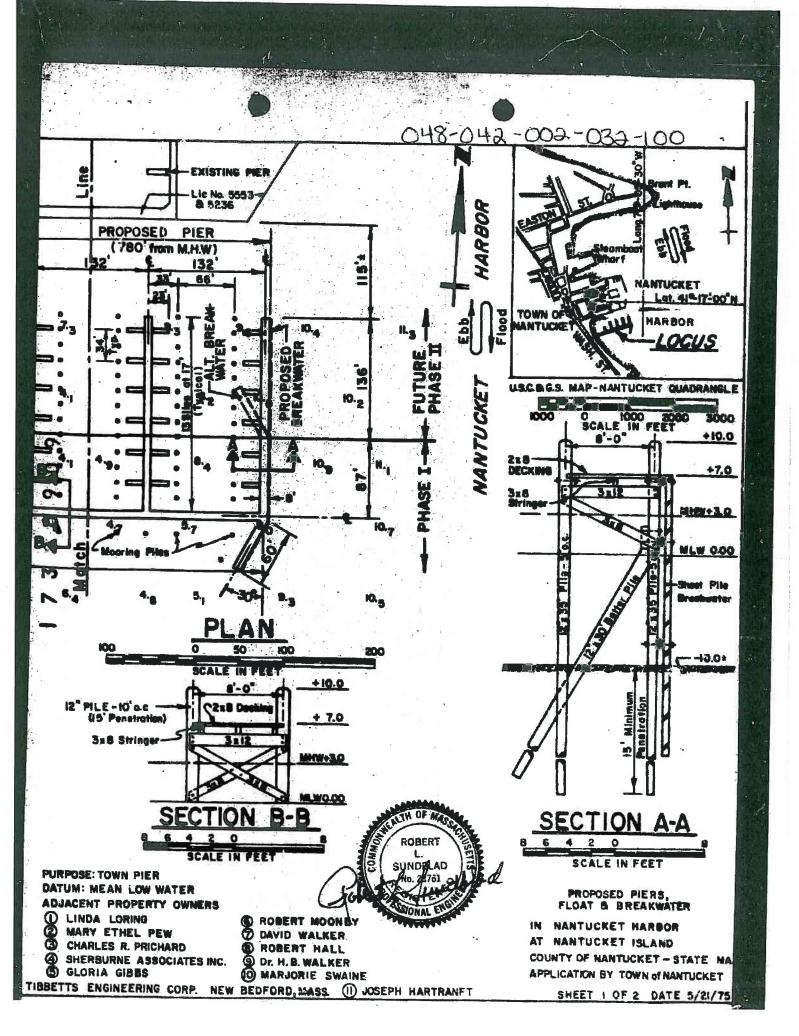
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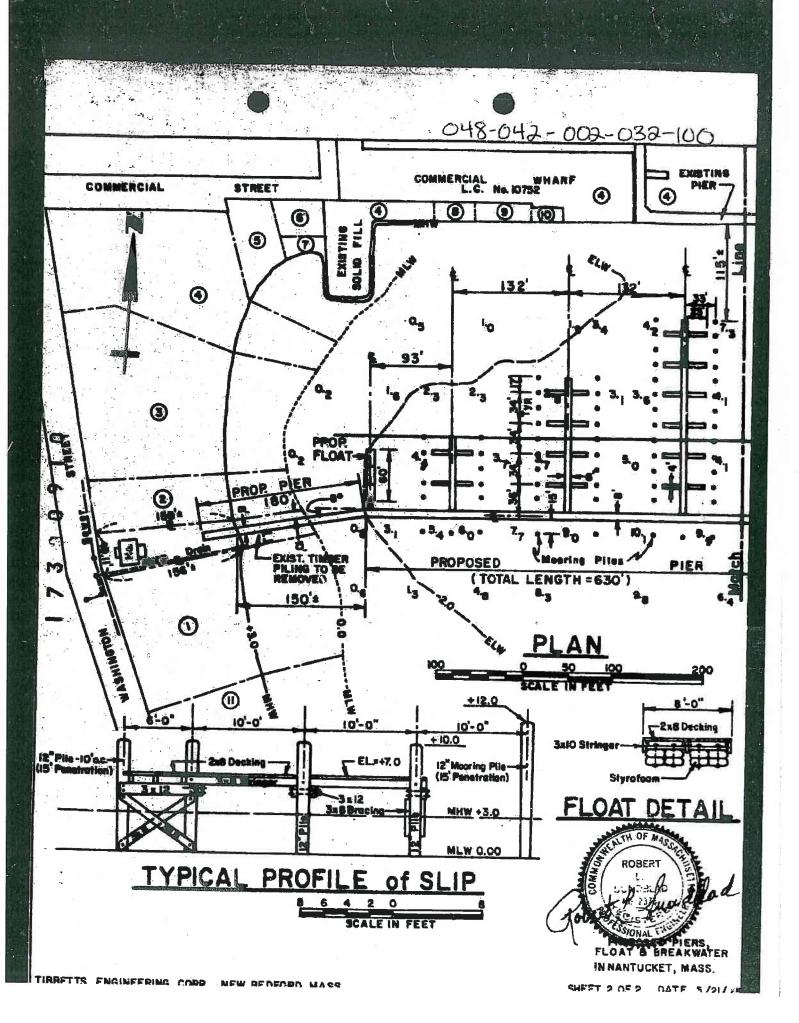
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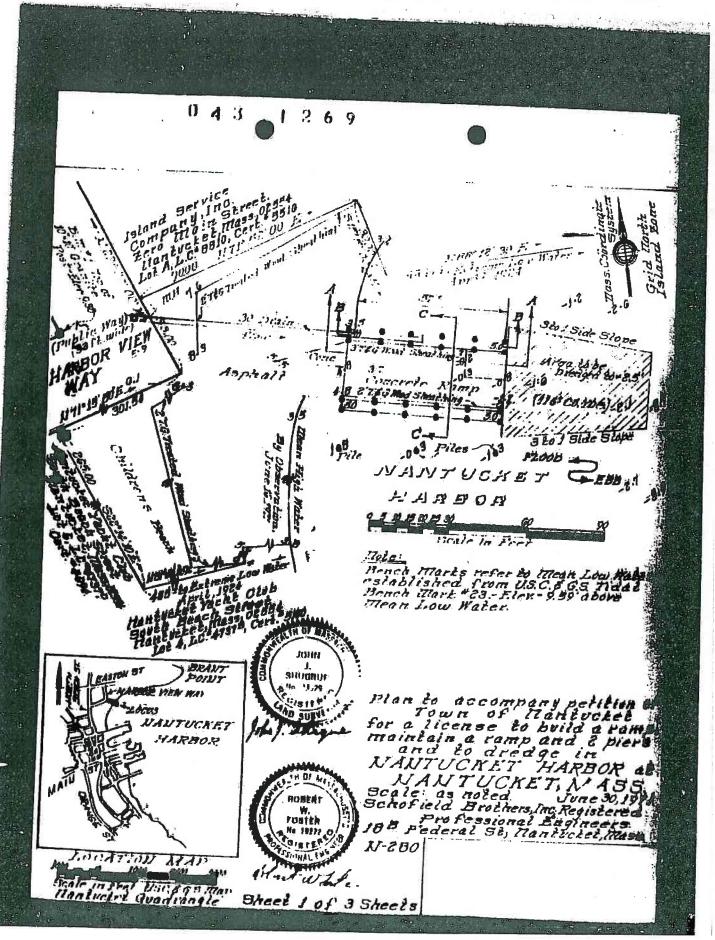


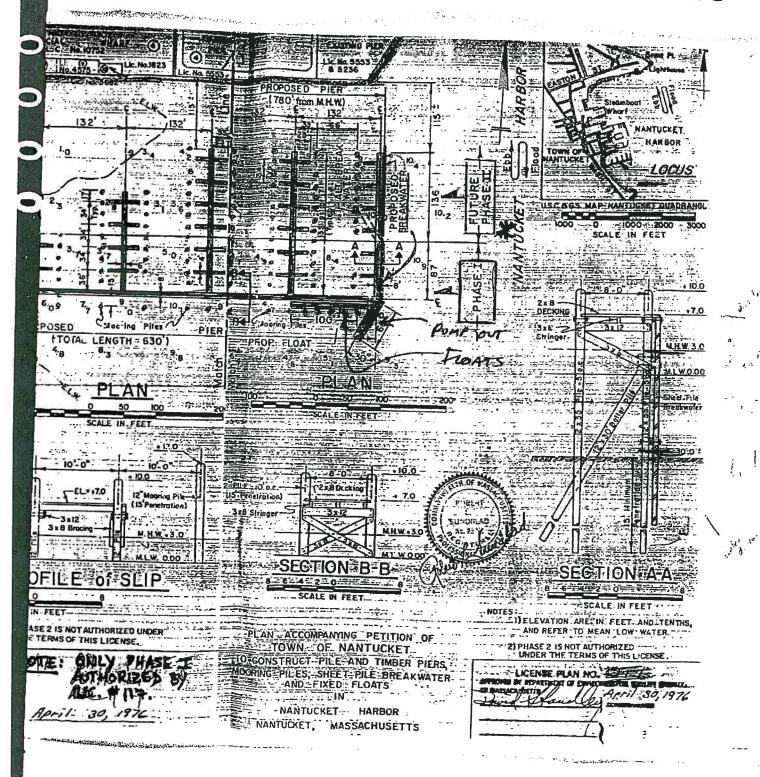
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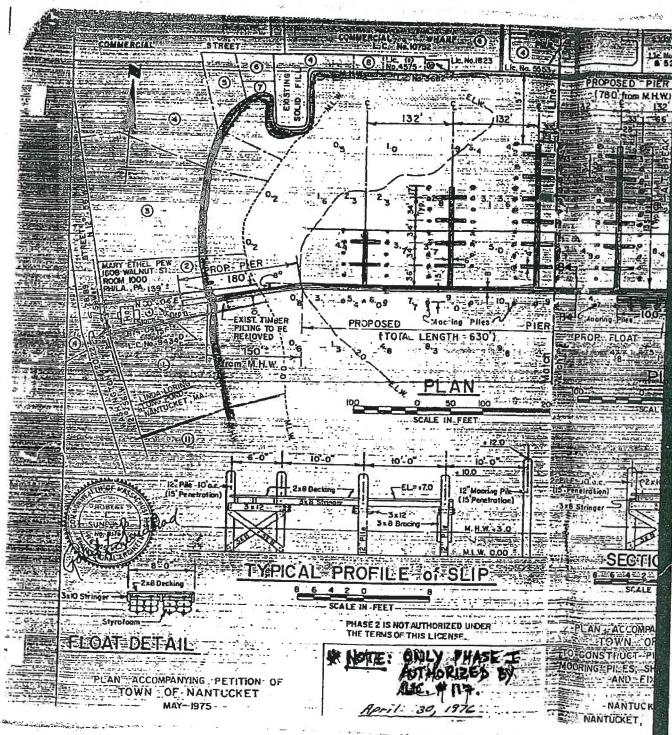




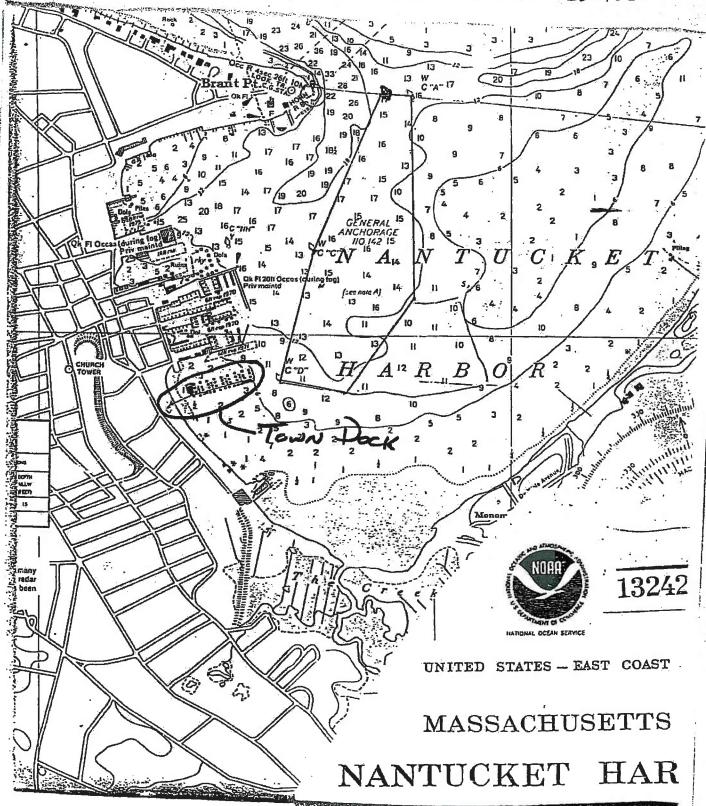






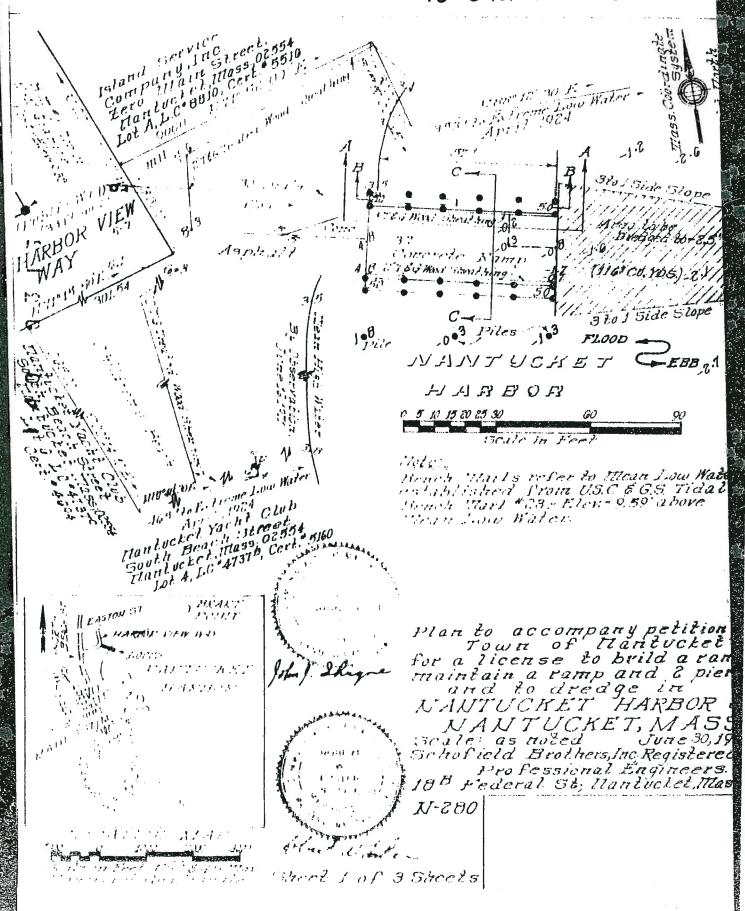


617-894-1126



Town of Nantucket, MA Rental Moorings U.S. Coast Guard General Anchorage Sheet 2 of 5

048-042-004-029-100



048-042-004-029-100

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Section A-A

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Bridge State

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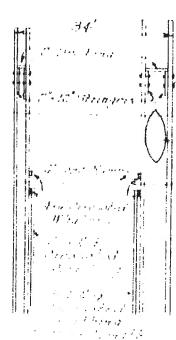
JOB Nº N-280

Detail Sheet for
Town of Nantucket
NANTUCKET, MASS.
Scale ou noted June 30.197.
Schofield Brothers, Inc. Registered
Professional Engineers.
188 Federal St. Nantucket, Mass

Carlo I A Commission I a

048-042-004-029-100

30 101¢ y for the state of war. $k_{i,1,i_{1}}$ $h_{i,f_{i,j}}$ 30 1770 70 Sel mound 10 1 1022 1 3 $\mathcal{N}(q)/\mathcal{M}_{\ell}$ · dr & Guis holls, muyor & coastiers Elev 30 Ittern Hab Willer * 455 A 1997 1134 00 Train Inne Haling 1 w Creosatour What Girt 1378 g . 120 - 141 f 18 4 642 P. Acres 7 377 July 14 14 14 5 (0) 18'0 - 60' Section B-B Gorizontal Scale 1' = 20' Vert Beale



Lices 50 By Oalk holls, nots V washees Blen 30 Thean High Waler 30 Transactor Main Lynn tiller i 20 Bear Som Walne



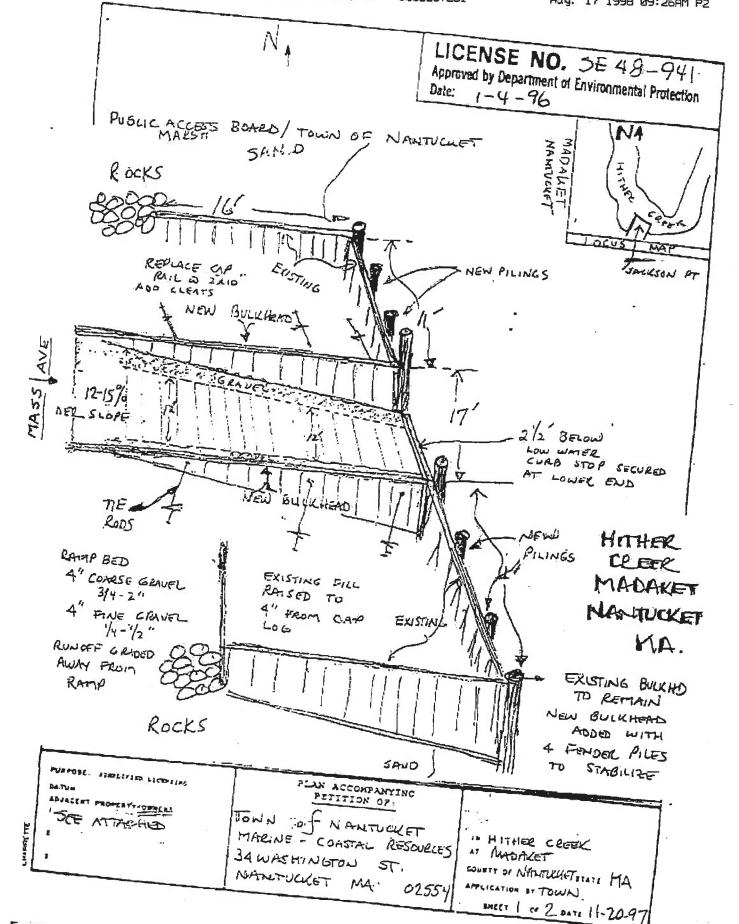
JOB NO. X-280 Detail Sheet for Town of Hantucker Mantucket NANTUCKET, MASS.
Solver as noted June 30.198
Solvered Brothers, inc. Registeres Prolessional Engineers. 18th Federal St. Mantucket, Mas.

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Calend A . at a Calcandi

Aug. 17 1998 09:26AM P2

FROM : NANTUCKET MARINE&COASTAL RSCES PHONE NO. : 5082287261



FROM : MANTUCKET MARINESCOASTAL RSCES PHONE NO. : 5082287261

LICENSE NO. Approved by Department of Environmental Protection HARBOR PEARSON PROPOSED (MADAKET PROJECT SITE -567 PEARSON R. W-1 DEED PLAN ACCOMPANYING PURPORT. HERLITED LICENSISE PETITION OF: TOWN of NANTUCKET IN HITHER CREEK ADVACENT PROPERTY CHREAS MARINE - COASTAL RESOURCES AT MYDAKET SEE ATTACHED 34 WARHINGTON ST. COUNTY OF NAMICKETATE MA APPLICATION BY TOWN NANTUCKET MA 02554 AMEET 2 00 2 DATE 11-20-97 **Section III**

Edgartown



Section III - Community Findings - Town of Edgartown

COMMUNITY DESCRIPTION

The Town of Edgartown consists of a land area of 27.01 square miles out of a total area of 34.69 square miles and had a population of 3,779 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 24.9 miles with the remaining shoreline semi-protected by offshore structures or landforms. The town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Edgartown, there were 8 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 8 in Section III-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Edgartown

	Total	S	tructure Condi	tion Rating		
Primary Structure (1)	Structures A	В	С	D	F	Total Length
Bulkhead / Seawall	3	2	1			475
Revetment	2	1	1			550
Breakwater						
Groin / Jetty	1		1			200
Coastal Dune						
Coastal Beach	2	2				20290
	8	5	3			21515

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Edgartown's case there are a total of 8 structures which would require approximately \$ 3.2 million to bring all the coastal structures to "A" Rating. There are no structures in the "D" or "F" classification that are in need of immediate replacement or repair.



III-A-1

	Total			S	truct	ure Conditio	n Rating			
Primary Structure (1)	Structures	Α		В		С	D	 F	Tot	al Cost
Bulkhead / Seawall	3		\$	73,450	\$	125,400			\$	198,850
Revetment	2		\$	39,270	\$	180,180			\$	219,450
Breakwater									\$	_
Groin / Jetty	1				\$	240,200			\$	240,200
Coastal Dune									\$	_
Coastal Beach	2		\$ 2	,572,770					\$	2,572,770
	8	\$-	\$ 2	,685,490	\$	545,780	-	\$ 	\$	3,231,270

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Edgartown the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Edgartown

	Total		Str	uct	ure Condit	on Ra	ting		
Primary Structure (1)	Structures	Α	В		С		D	 F	Total Cost
Town Owned	8		\$ 2,685,490	\$	545,780				\$ 3,231,270
Commonwealth of Massachusetts									\$ -
Federal Government Owned									\$ -
Unknown Ownership									\$ -
	8	\$-	\$ 2,685,490	\$	545,780	\$	-	\$ _	\$ 3,231,270

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section III-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Edgartown's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

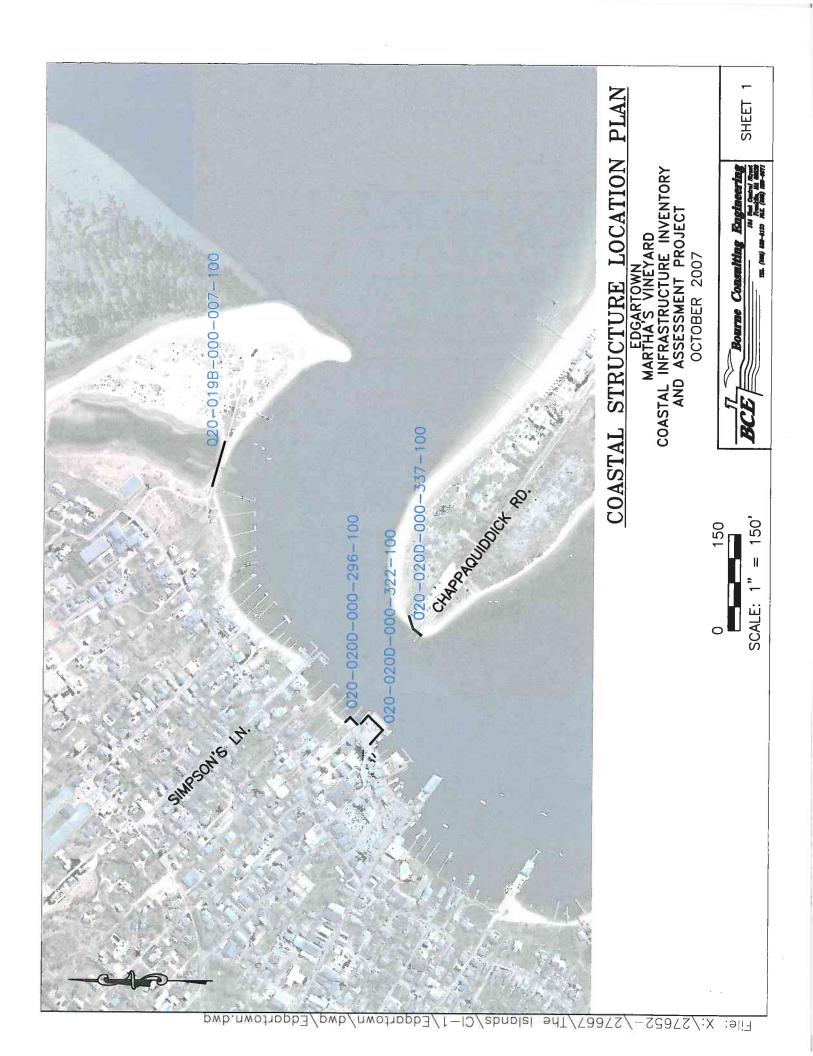


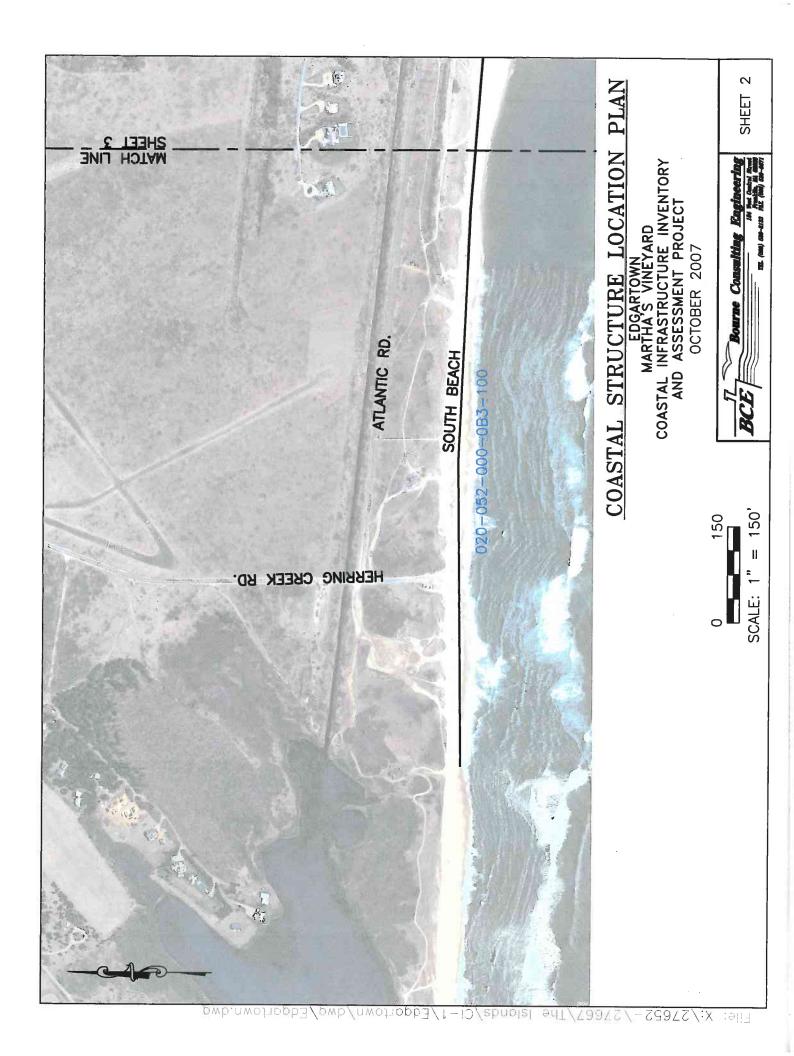
Section III - Edgartown

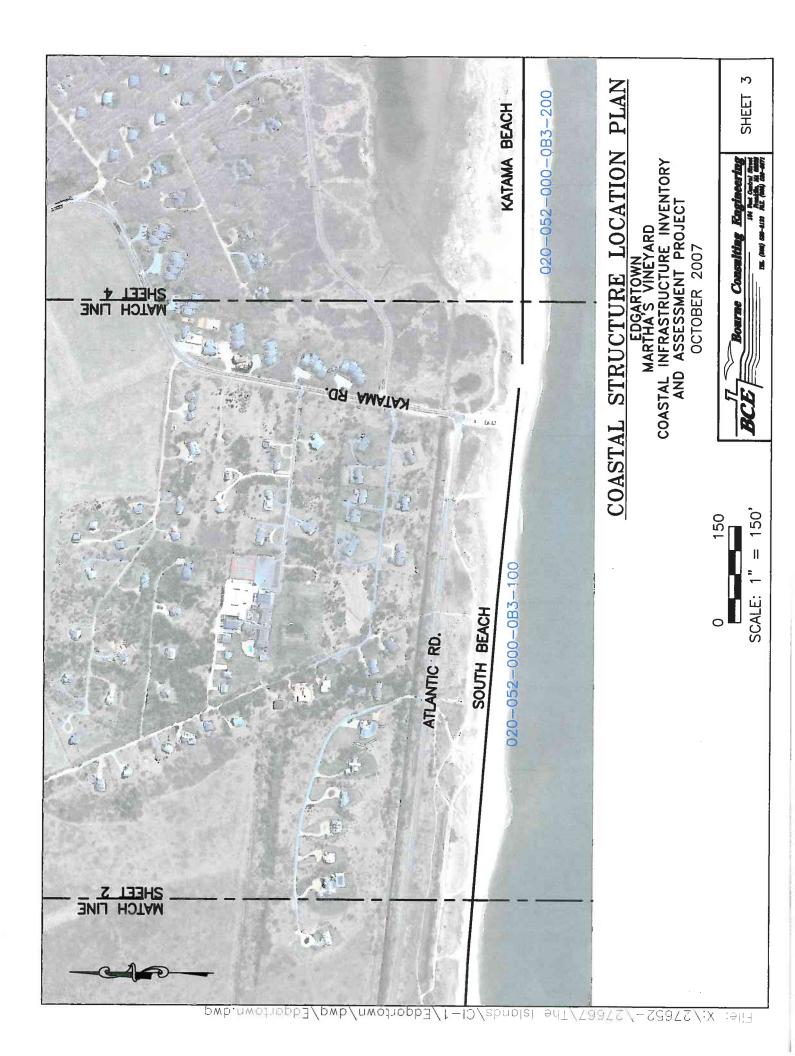
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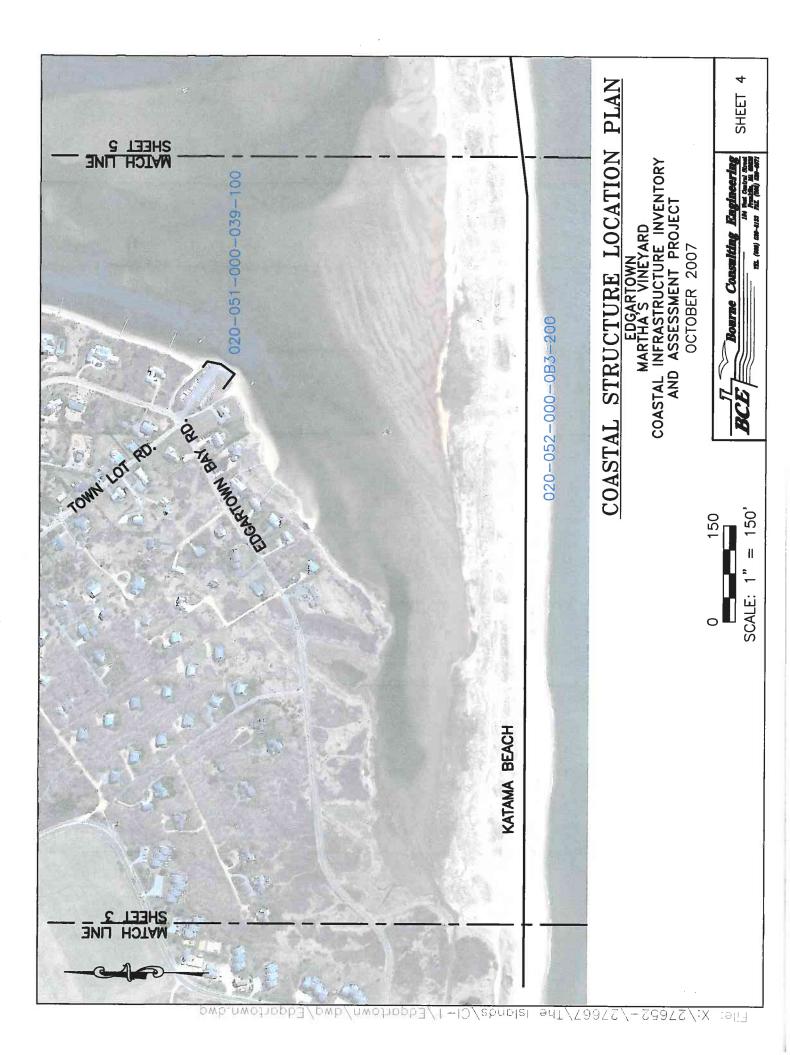
Structure Assessment Reports

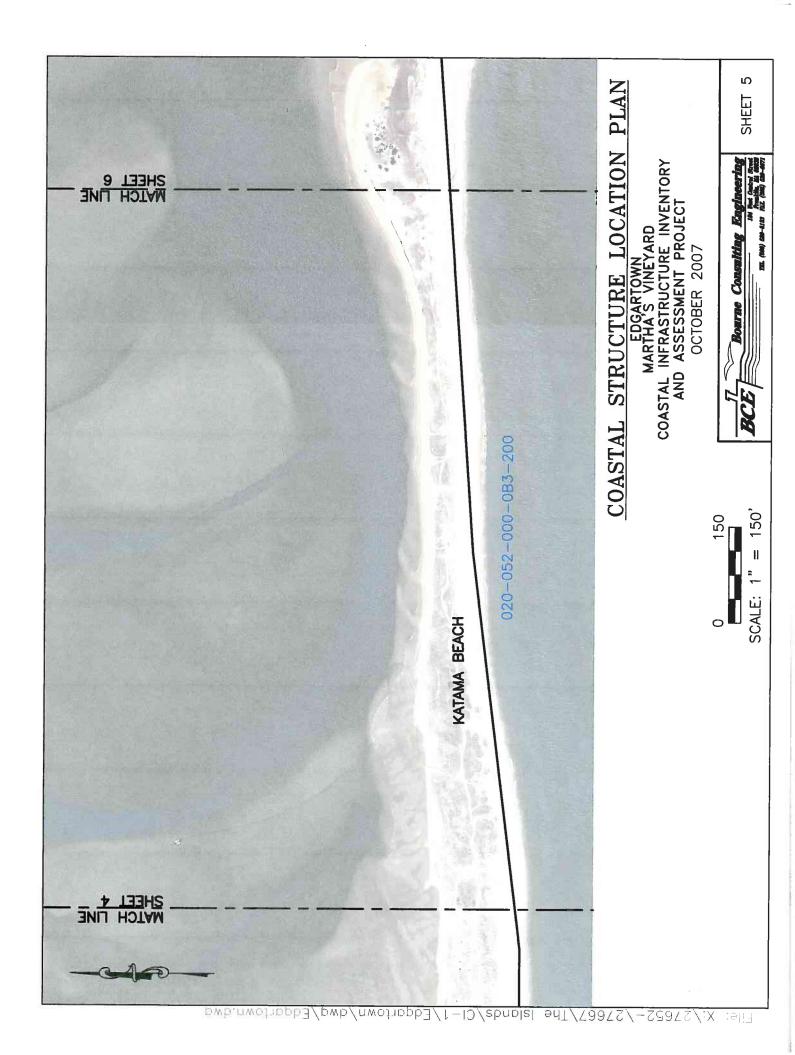


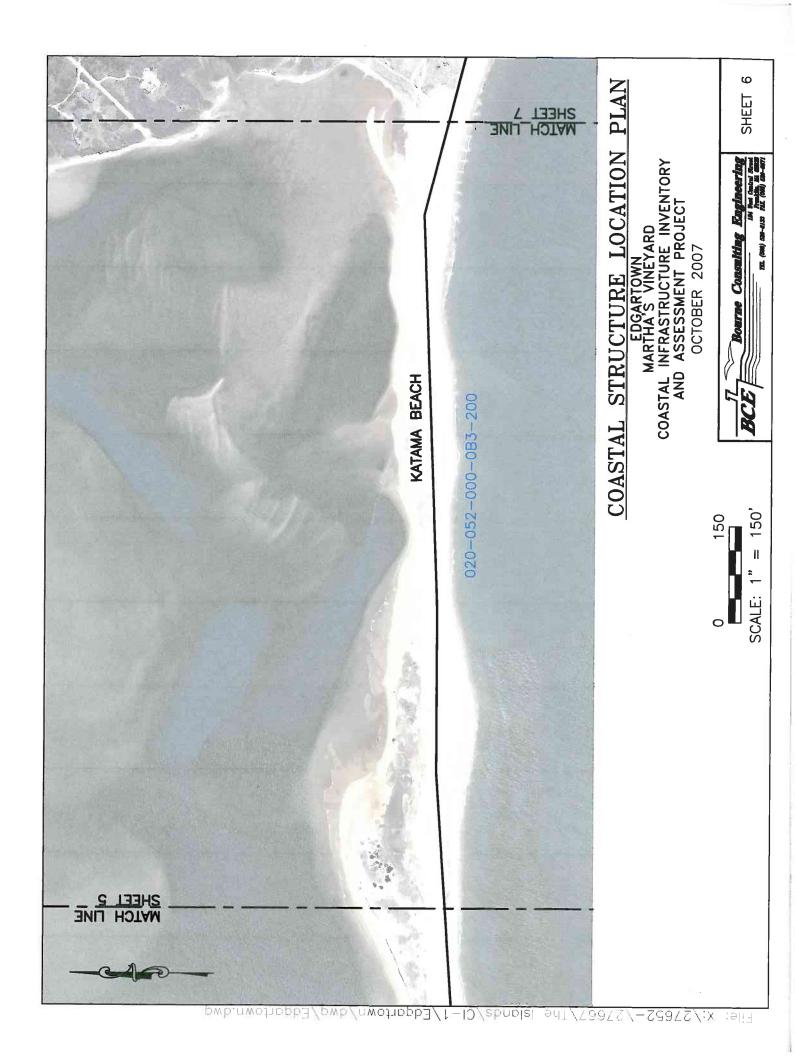


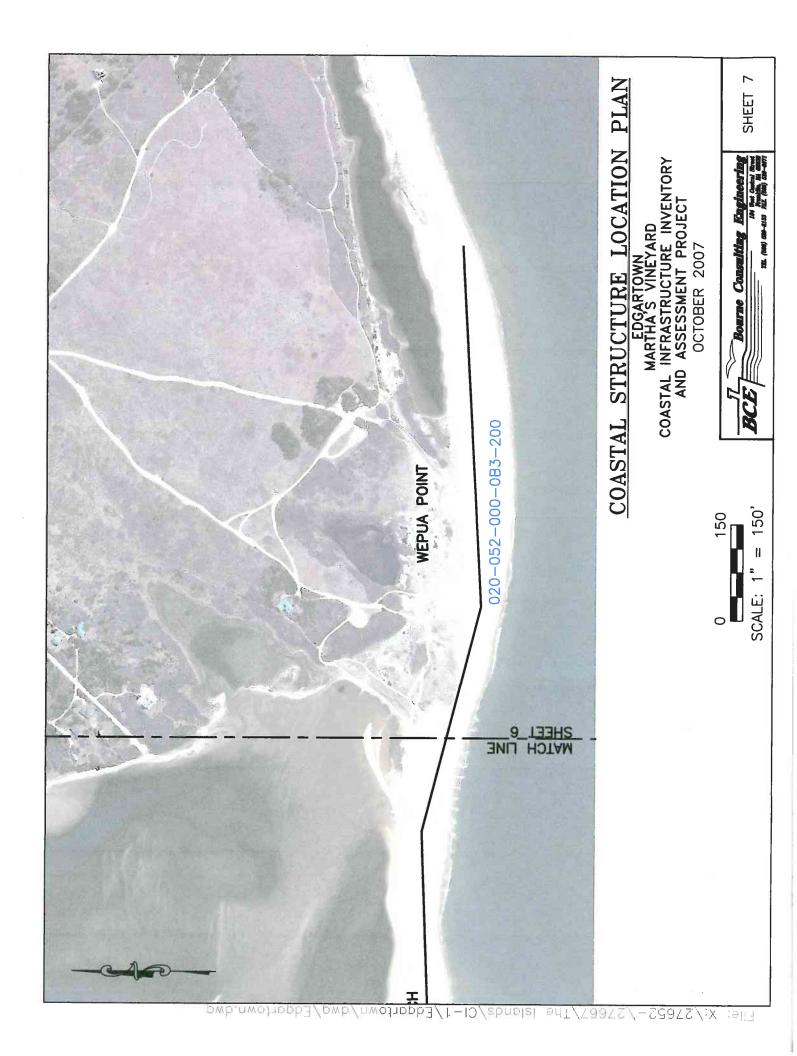


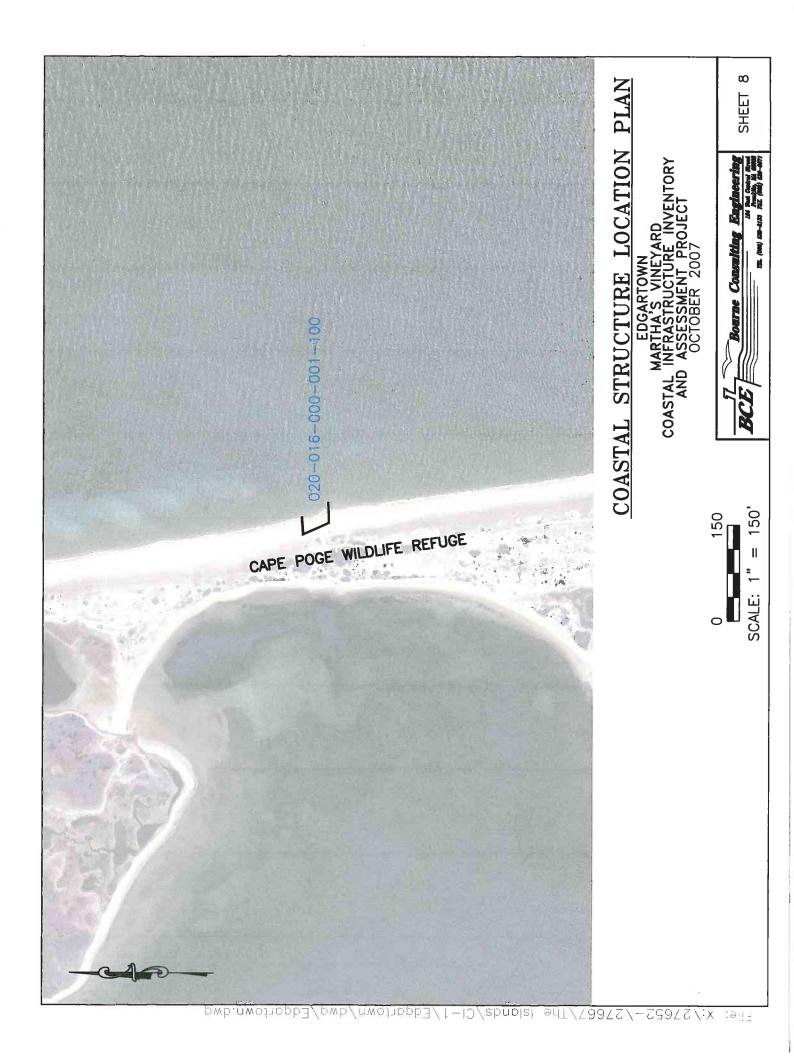












Structure Assessment Form

Town: Edgartown

Structure ID: 020-016-000-001-100

Property Owner:		Location:		Date:	
Local		Cape Poge Wi	Idlife Refuge	Date.	10/1/2007
Presumed Structur	e Owner:	Based On Com	ment:	j.	
Local				The second secon	<u> </u>
' Owner Name:		Earliest Structu	ire Record:	Estimated Reconstruct	tion/Renair Costs
Edgartown		Unkown	are record.	LSulliated Records det	\$240,200.00
Length: Top F	lovation: ETDM Man Zone.	TIDA NAS FILM			
Length: Top E	levation: FIRM Map Zone: VE	FIRM Map Elevati	on: 13		
Feet Feet N	IAVD 88	Feet NGV	'D		
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	5 to 10 Feet	and a		
Secondary Type:	Secondary Material:	Secondary Height			
		1	· ·		
Structure Summary		at hy 2 fact hy 2 fac	t on average. The	ere is moderate stone movement. Th	
scour. One groin i	s almost completely buried.	et by 3 feet by 3 fee	et on average. The	ere is moderate stone movement. In	ere is no visible
Condition Rating	C Fair		Priority	l None	
Level of Action	Moderate		Rating Action	Long Term Planning Consideration	ons
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken is structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a material for full protection and extending for full protection and extending for full protection and extending the storm.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	No Inshore Structures or Residen Units Present	
Structure Image 020-016-000-001-1 020-016-000-001-1	00-PHO1A.JPG	cture Document	ts:	•	

Structure Assessment Form

Town: Edgartown

Structure ID: 020-019B-000-007-100

		Location:		Date:	
Local		Edgartown Light	house		10/1/2007
Presumed Structur	re Owner:	Based On Comm	ent:	,	
Local			·		
Owner Name:		Earliest Structure	Record:	Estimated Reconstru	ction/Repair Cost:
Edgartown		Unkown			\$39,270.00
ength: Top E	levation: FIRM Map 2	one: FIRM Map Elevation	•		
250		V15 14			
Feet Feet N	NAVD 88	Feet NGVD			
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	10 to 15 Feet			
econdary Type:	Secondary Material:	Secondary Height:			i.
tructure Summary	v:				Arriva (
Description	Structure observed to exhib problems, superficial in nate to landform is present. Structure adequate to provide protect coastal storm with no dama to prevent / limit future deteilife of structure.	ure. Minor erosion ucture / landform ion from a major ge. Actions taken	Description	No Inshore Structures or Reside Units Present	ential Dwelling

Structure Assessment Form

Town: Edgartown

Structure ID: 020-020D-000-296-100

Key: community-map-block-parcel-structure Property Owner: Location: Date: Local Daggert Street Ferry Landing 10/1/2007 Presumed Structure Owner: Based On Comment: Local Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: Edgartown Unkown \$125,400.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 100 A12 10 Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Stone 10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Structure Summary: Stone bulkhead with concrete mortar. Areas of section loss in mortar and stone settling and rotation. In front of the structure is a pier for the ferry. Above is a concrete cap with moderate cracking C Condition **Priority** Fair Rating None Rating Moderate Level of Action Long Term Planning Considerations Action Structure is sound but may exhibit minor Description No Inshore Structures or Residential Dwelling Description deterioration, section loss, cracking, spalling, Units Present undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents: 020-020D-000-296-100-PHO1A.JPG February 12, Plan Accompanying 020-020D-000-296-100-LIC1A

Structure Assessment Form

Town: Edgartown

Structure ID: 020-020D-000-322-100

Property Owner:		Location:		Date:
.ocal		Memorial W	harf	10/1/200
resumed Structur	e Owner:	Based On Co	omment:	,
.ocal				
Owner Name:		" Earliest Stru	cture Record:	Estimated Reconstruction/Repair Cost:
dgartown		1995		\$62,700.00
	levation: FIRM Map 2	one: FIRM Map Eleva	ation:	
250		V15	13	A
Feet Feet M	IAVD 88	Feet No	GVD	¥.
rimary Type:	Primary Material:	Primary Height:		
ulkhead/ Seawall		10 to 15 Feet	<u> </u>	
econdary Type:	Secondary Material:	Secondary Heig	ht:	
			-	
tructure Summan	/:	-		
orrosion at the ti o	tal zone.			d is filled with an asphalt parking lot above. Minor
Condition	B Good		Priority	l N
Rating Level of Action	Minor		Rating	None
Description	Structure observed to exhibit	it very minor	Action Description	Long Term Planning Considerations No Inshore Structures or Residential Dwelling
	problems, superficial in natu- to landform is present. Stru- adequate to provide protecti- coastal storm with no dama- to prevent / limit future deter- life of structure.	ucture / landform on from a major ge. Actions taken	-	Units Present
		Structure Docume		
0-020D-000-322-	-100-PHO1A.JPG	USACE	July 1995 Town	n of Edgartown - 020-020D-000-322-100-COE1A
0-020D-000-322-		USACE J DEP F	luly 1995 Town February 12, Plan	Accompanying 020-020D-000-322-100-LIC1A
20-020D-000-322-	-100-PHO1A.JPG	USACE J DEP F DEP N	luly 1995 Town February 12, Plan	
	-100-PHO1A.JPG	USACE [JEP]FDEP N	Towing the second of the secon	Accompanying 020-020D-000-322-100-LIC1A
0-020D-000-322-	-100-PHO1A.JPG	USACE [JEP]FDEP N	Towing the second of the secon	Accompanying 020-020D-000-322-100-LIC1A Accompanying 020-020D-000-322-100-LIC1B

Structure Assessment Form

Town: Edgartown

Structure ID: 020-020D-000-337-100

roperty Owner:			Location:			Date:
ocal			Chappaquiddi	ck Road Ferry Lan	oding	10/1/200
resumed Structu	e Owner:		Based On Con	nment:		
ocal						
wner Name:			Earliest Struct	ure Record:	Estimated R	econstruction/Repair Cost:
dgartown			Unkown			\$10,750.00
	levation:	FIRM Map Zone:	FIRM Map Elevat			
125		V15	1	13		
	NAVD 88		Feet NG\	/D	-	
rimary Type:		ry Material:	Primary Height:			
ulkhead/ Seawal	Wood	3	Under 5 Feet			. 1111
econdary Type:	Secon	dary Material:	Secondary Height	:		
tructure Summar					is no visible scour or erosion	
Description	problems, sur to landform is adequate to p coastal storm	erved to exhibit very perficial in nature. Mi present. Structure provide protection from with no damage. Ac mit future deteriorations.	nor erosion / landform m a major ctions taken	Description	No Inshore Structures of Units Present	or Residential Dwelling
			cture Documen			
ructure Image		PG DEP	Ma	ay 10, 200 Cha	ppaquiddick 020-02	0D-000-337-100-LIC1A
ructure Image 20-020D-000-337	-100-PHO1A.JI	•				
	-100-PHO1A.JI	•				
	-100-PHO1A.JI	·				
	-100-PHO1A.JI	·				
	-100-PHO1A.JI					
	-100-PHO1A.JI	·				
	-100-PHO1A.JI					

Structure Assessment Form

Town: Edgartown

Structure ID: 020-051-000-039-100

roperty Owner:		Location:		Date:
ocal		Mattakesett Bay	Boat Ramp	10/1/2007
resumed Structur	e Owner:	Based On Comm	nent:	
ocal				
wner Name:		, Earliest Structur	e Record:	Estimated Reconstruction/Repair Cost:
dgartown	0.294	1967		\$180,180.00
ength: Top E	levation: FIRM Map 2	one: FIRM Map Elevation	າ:	B
300		AE 9)	
Feet Feet N	IAVD 88	Feet NGVD	1	No. of the last of
imary Type:	Primary Material:	Primary Height:		
evetment	Stone	5 to 10 Feet		
econdary Type:	Secondary Material:	Secondary Height:	_	
ide. There are si	gns of concrete repairs. The	re is minor scour and mode	Tate stone mover	e mortar. The slope is 1 on 1 and the crest is 8 feet ment.
ating	Fair		Rating	None
evel of Action Description	Moderate Structure is sound but may		Action	Long Term Planning Considerations No Inshore Structures or Residential Dwelling
	deterioration, section loss, of undermining, and/or scour. to withstand major coastal smoderate damage. Actions structure to provide full protecoastal storm and for extend structure. Moderate wind or landform exists. Landform to fully protect shoreline dur storm. Actions taken to provimaterial for full protection and	cracking, spalling, Structure adequate storm with little to taken to reinforce ection from major ding life of wave damage to nay not be sufficient ing a major coastal	Description	Units Present
ructure Image 0-051-000-039-1		Structure Documents USACE Janu		posed Access 020-051-000-039-100-COE1A

Structure Assessment Form

Town: Edgartown

Structure ID: 020-052-000-0B3-100

Property Owner:		Location:		Date:
Local		South Beach		5/28/2009
Presumed Structur	e Owner:	Based On Com	ment:	
Local				
" Owner Name:		! Earliest Structu	ıre Record:	Estimated Reconstruction/Repair Cost:
Edgartown		Unkown		\$735,330.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation	on:	
5790	VE		20	
Feet Feet N	IAVD 88	Feet NGV	D	
Primary Type:	Primary Material:	Primary Height:		
Coastal Beach	Sand	5 to 10 Feet		The state of the s
Secondary Type:	Secondary Material:	Secondary Height		
Structure Summary				is well maintained and there is no signs of erosion.
Rating Level of Action Description	Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Rating Action Description	Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage
Structure Image 020-052-000-0B3-1		ucture Document	rs:	

Structure Assessment Form

Town: Edgartown

Structure ID: 020-052-000-0B3-200

Property Owner:		Location:		Date:
Local		Katama Beach	10.00	5/28/2009
Presumed Structure	e Owner:	Based On Comment:		U
Local				
Owner Name:		" Earliest Structure Reco	d: E	stimated Reconstruction/Repair Cost:
Edgartown		Unkown		\$1,837,440.00
Length: Top E	evation: FIRM Map Zone:	FIRM Map Elevation:		
14500	VE	20		The second second
Feet Feet N	AVD 88	Feet NGVD		
Primary Type:	Primary Material:	Primary Height:		
Coastal Beach	Sand	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		fred to the
			34 # 3	
Structure Summary			110	
	protects the Katama Bay to the no			
There is a breach t	o the Katama Bay with signs of ac	creuon. Beach is a popular n	sung area for many prote	ected rare birds.
Condition	В	Priori	tv IV	
Rating	Good	Rating	-	
Level of Action	Minor	Action		Next Project Construction Listing
Description .	Structure observed to exhibit ver problems, superficial in nature. It to landform is present. Structure adequate to provide protection frocoastal storm with no damage. It to prevent / limit future deteriorate life of structure.	hinor erosion e / landform om a major Actions taken	for Infrastruc Density Resi	nshore Structures with Potential sture Damage and/or Moderate idential Dwellings (1-10 dwellings 00 feet of shoreline)
Structure Image		ructure Documents:		
020-052-000-0B3-2				
020-052-000-0B3-2	200-PHO2B.JPG			
		•		

Section III - Edgartown

Part C

Structure Photographs



TOWN: EDGARTOWN
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: JULY 2007

Description Structure Location Location -DIGITAL IMAGE DIGITAL IMAGE Title October 2007 May 2007 May 2007 May 2007 Date Edgartown Bourne
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
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Bourne
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Consulting
Engineering
Engin Entity Contract/ Drawing Number 020-019B-000-007-100-PHO1A.JPG 020-020D-000-298-100 020-020D-000-298-100-PHO1A.JPG 020-020D-000-322-100-PHO1A.JPG 020-020D-000-322-100-PHO1B.JPG 020-020D-000-337-100 020-020D-000-337-100-PHO1A.JPG 020-052-000-0B3-200-PHO2B.JPG 020-016-000-001-100-PHO1A.JPG 020-016-000-001-100-PHO1B,JPG 020-051-000-039-100-PHO1A.JPG 020-052-000-0B3-100-PHO1A,JPG 020-052-000-0B3-200 020-052-000-0B3-200-PHO2A.JPG Document No 020-019B-000-007-100 020-020D-000-322-100 020-020D-000-322-100 020-018-000-001-100 020-018-000-001-100 020-051-000-039-100 020-052-000-0B3-100 020-052-000-0B3-200 BCE Structure No

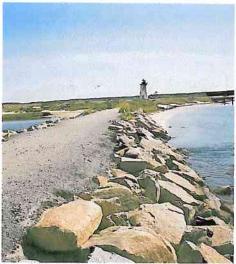
Massachusetts Coastal Infrastructure and Assessment



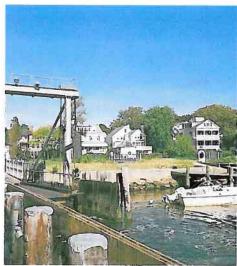
020-016-000-001-100-PHO1A



020-016-000-001-100-PHO1B



020-019B-000-007-100-PHO1A



020-020D-000-296-100-PHO1A



020-020D-000-322-100-PHO1A



020-020D-000-322-100-PHO1B



020-020D-000-337-100-PHO1A



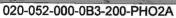
020-051-000-039-100-PHO1A



020-052-000-0B3-100-PHO1A

Massachusetts Coastal Infrastructure and Assessment







020-052-000-0B3-200-PHO2B

Section III - Edgartown

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE – PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Edgartown.xls

TOWN: EDGARTOWN SOURCE: Town of Edgartown.xls LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

Description		
Location		
Sheets		
Title		
Date		
Municipality		
Entity		
Contract/	Number	
Document No		
BCE Structure No		

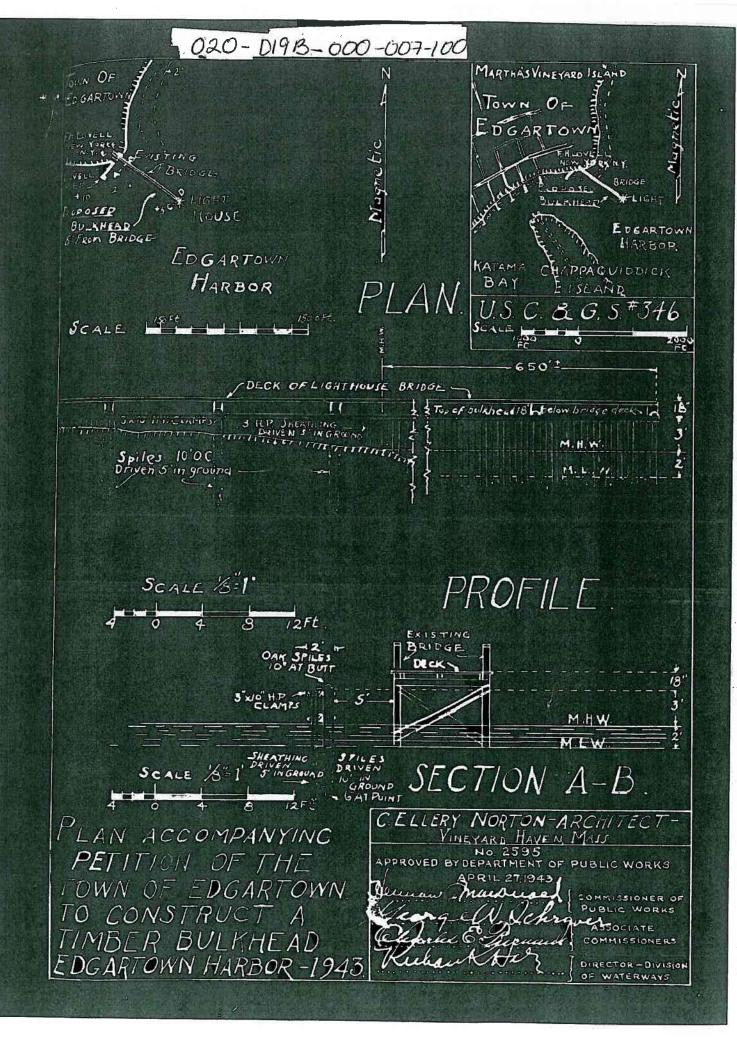
No MA - DCR Documents for the Town of Edgartown

TOWN: EDGARTOWN SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

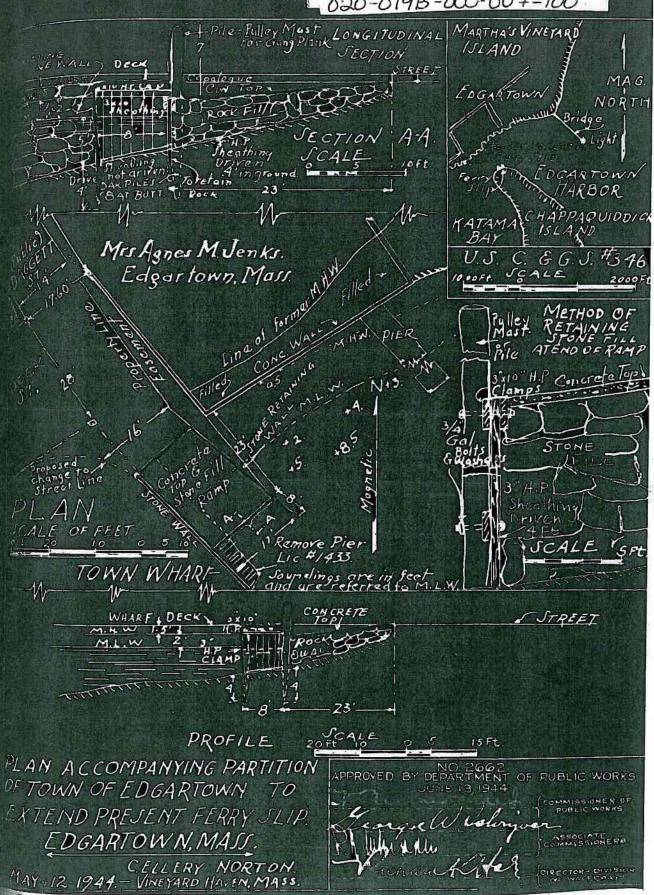
	ption
	Description
	ocation
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	Sheets
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ļ ;	Date
	милистранту
	Entity
Contract	Number
	роспини по
100	BOE STUCTURE NO

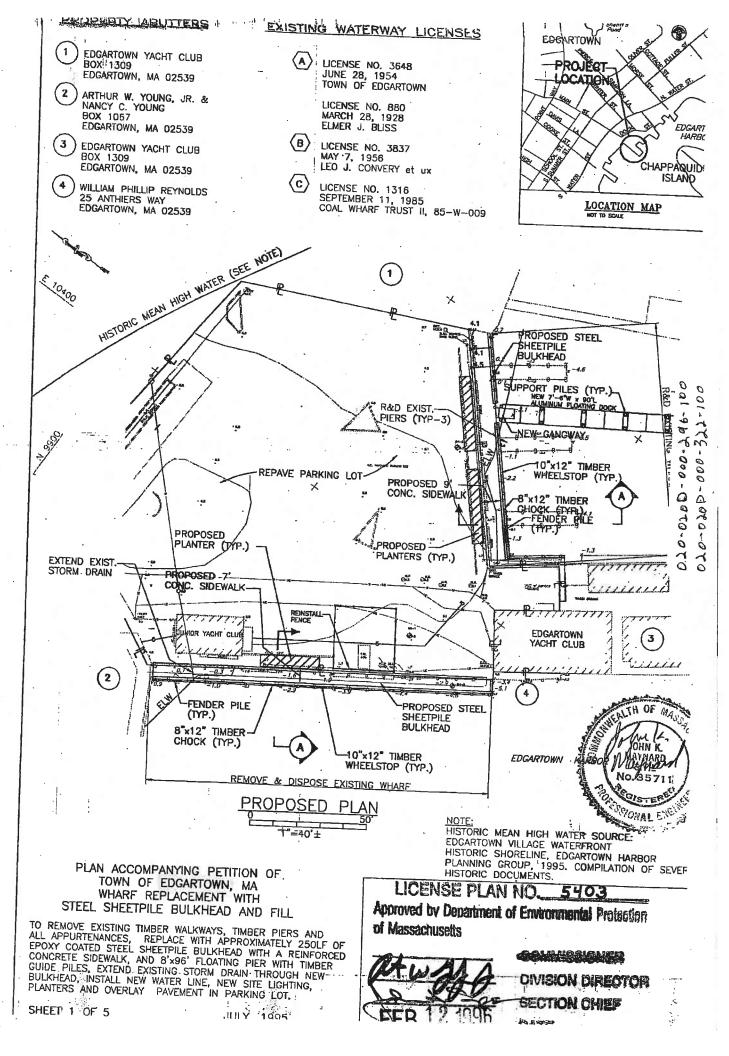
TOWN: EDGARTOWN SOURCE: DEP LOGATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

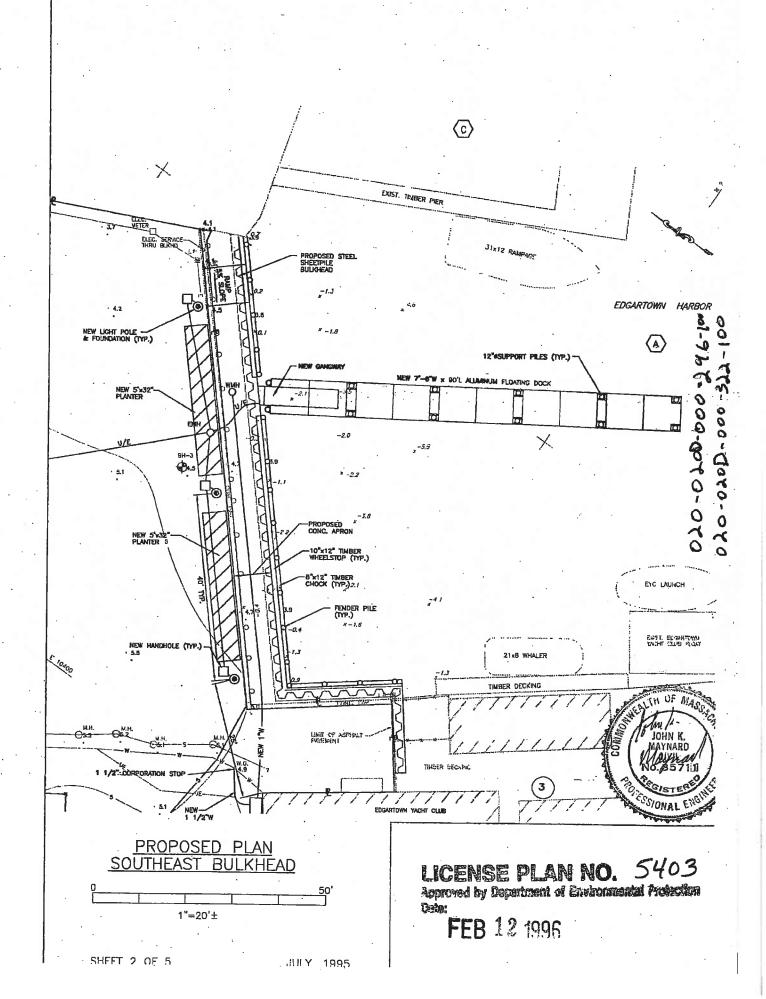
:		Contract						:	
BCE Structure No	Document No	Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
020-019B-000-007-100	020-019B-000-007-100 020-019B-000-007-100-LIC1A	2595	DEP	Edgartown	April 27, 1943	Plan Accompanying Petition of the Town of Edgartown to Construct a Timber Bulkhead Edgartown Harbor-1943	-	Edgartown Harbor	Timber Bulkhead
020-019B-000-007-100	020-019B-000-007-100 020-019B-000-007-100-LIC1B	2662	DEP	Edgartown	June 13, 1944	Plan Accompanying Pelition of Town of Edgartown to Extend Present Ferry Slip	1	Dock Street	Stone Revetment
020-020D-000-296-100	020-020D-000-296-100 020-020D-000-296-100-LIC1A	5403	DEP	Edgartown	February 12, 1996	Plan Accompanying Petition of Town of February 12, 1996 Edgartown, Ma. Wharf Replacement With Steel Sheetpile Bulkhead and Fill	5	Edgartown Harbor, Dock Street	Steel Bulkhead
020-020D-000-322-100	020-020D-000-322-100 020-020D-000-322-100-LIC1A	5403	DEP	Edgartown	February 12, 1996	Plan Accompanying Petition of Town of February 12, 1996 Edgartown, MA - Wharf Replacement with Steel Sheetpile Bulkhead and Fill	ъ	Memorial Wharf	Replace Steel Sheetpile Bulkhead
020-020D-000-322-100	020-020D-000-322-100 020-020D-000-322-100-LIC1B	1242	DEP	Edgartown	May 23, 1985	Plan Accompanying Petition of the Town of Edgartown to Construct and Maintain Sheet Pile Bulkhead	-	Dock Street	Sheet Pile Bulkhead
020-020D-000-322-100	020-020D-000-322-100 020-020D-000-322-100-LIC1C	5403	DEP	Edgartown	February 12, 1996	Plan Accompanying Petition of Town of February 12, 1996 Edgartown, Ma Wharf Replacement with Steel Sheetpile Bulkhead and Fill	5	Wharf Near Dock Street	Bulkhead
020-020D-000-337-100	020-020D-000-337-100 020-020D-000-337-100-LIC1A	9272	DEP	Edgartown	May 10, 2002	Chappaquiddick Ferry Slip for the Town of Edgartown, Martha's Vinyard Massachusetts	2	Edgartown Harbor	Bulkhead/Seawall



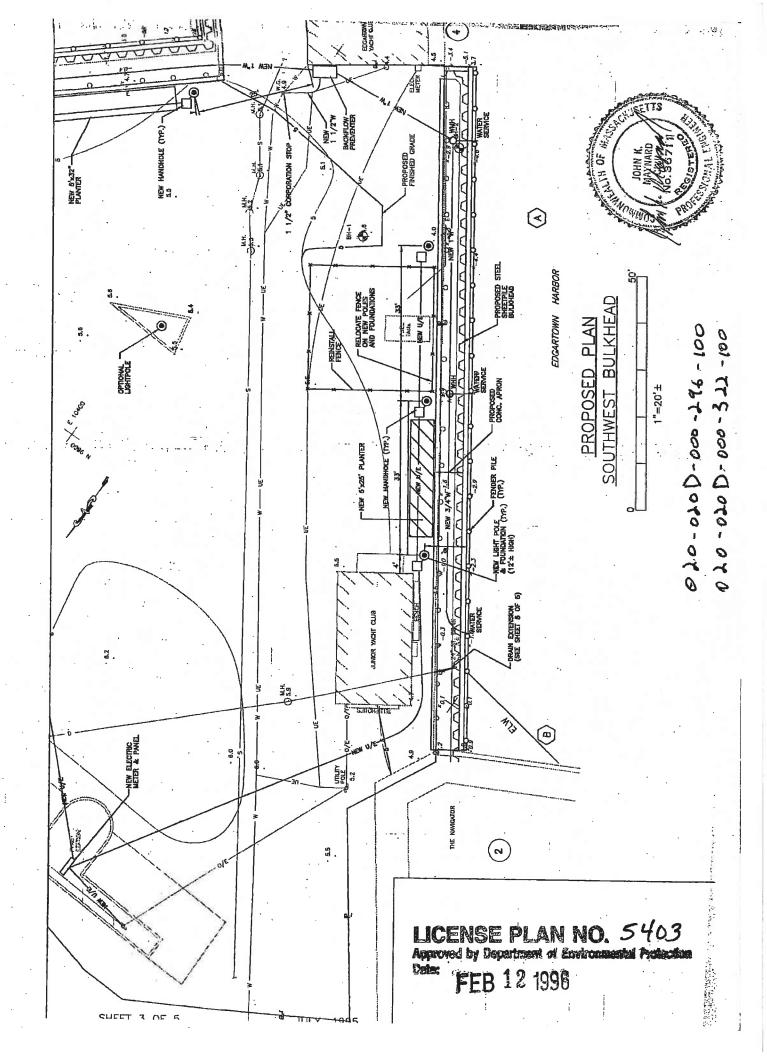
020-0198-000-007-100

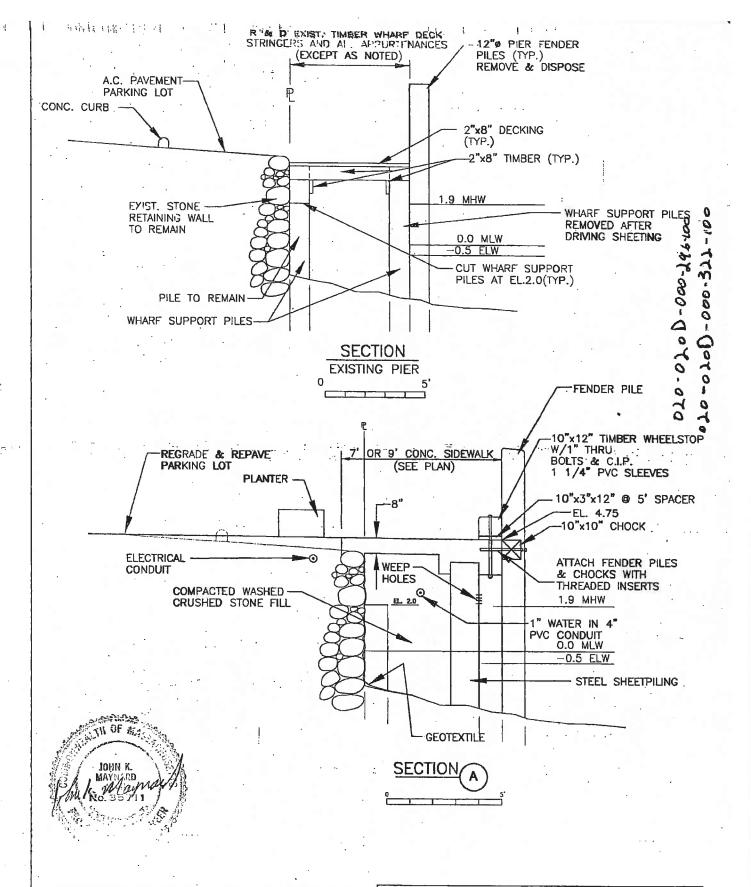






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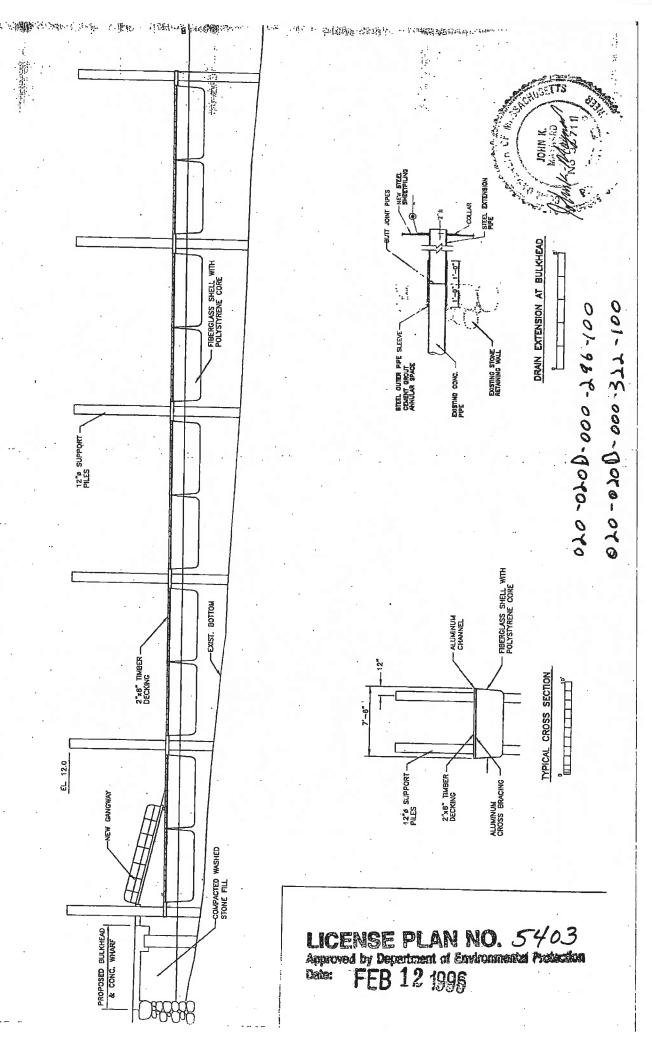


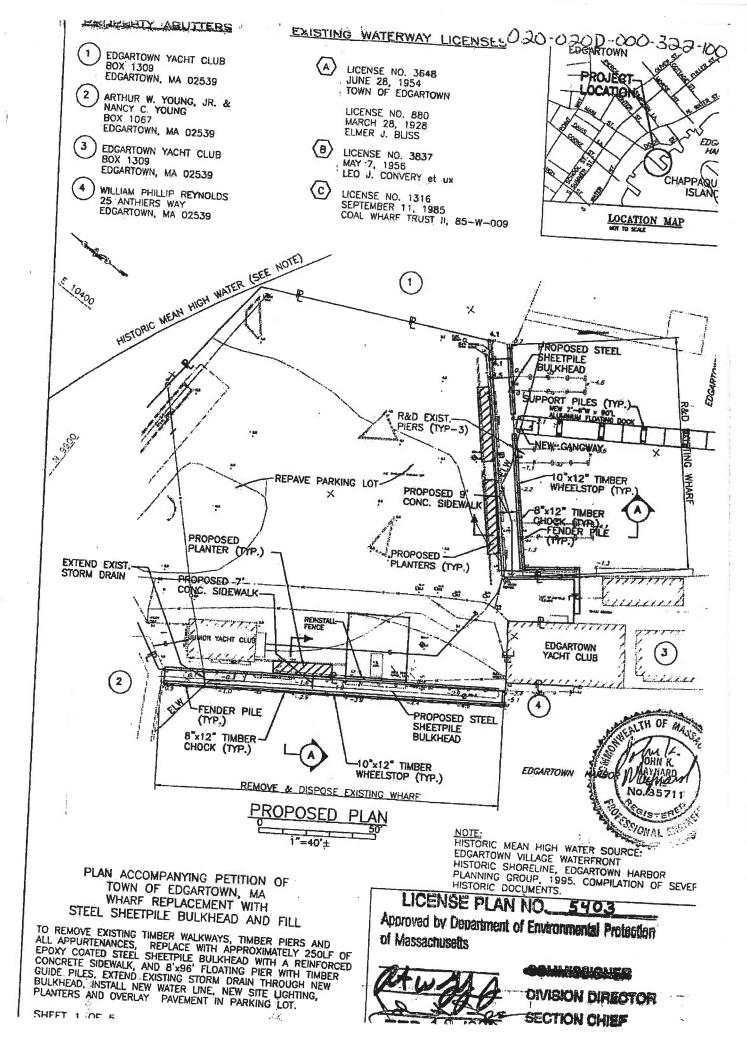


- 1. ELEVATIONS REFER TO MEAN LOW WATER (MLW) DATUM.
 2. APPROXIMATELY 320 CU. YDS. OF COMPACTED CRUSHED STONE FILL WILL BE PLACED BEHIND THE PROPOSED STEEL SHEETPILE BULKHEAD.
 3. EXCEPT WHERE ELW IS SHOWN ON PLANS,
- MEAN HIGH WATER LEVEL (MHW) AND EXTREME LOW WATER (ELW) LEVEL ARE ALONG FACE OF EXISTING STONE RETAINING WALLS.
- 4. FLOOD PLAIN BOUNDARIES BEYOND PROJECT AREA.
- 5. NO EXISTING OR PROPOSED EASEMENTS.

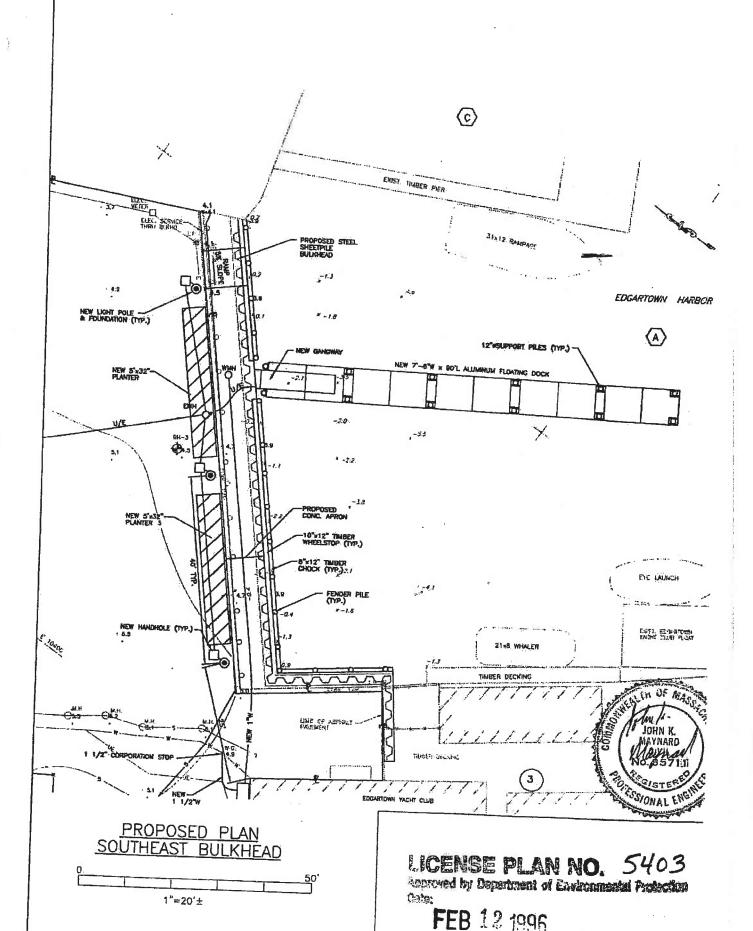
7 R = ____

License Plan no. 5403 Approved by Department of Environmental Frotection

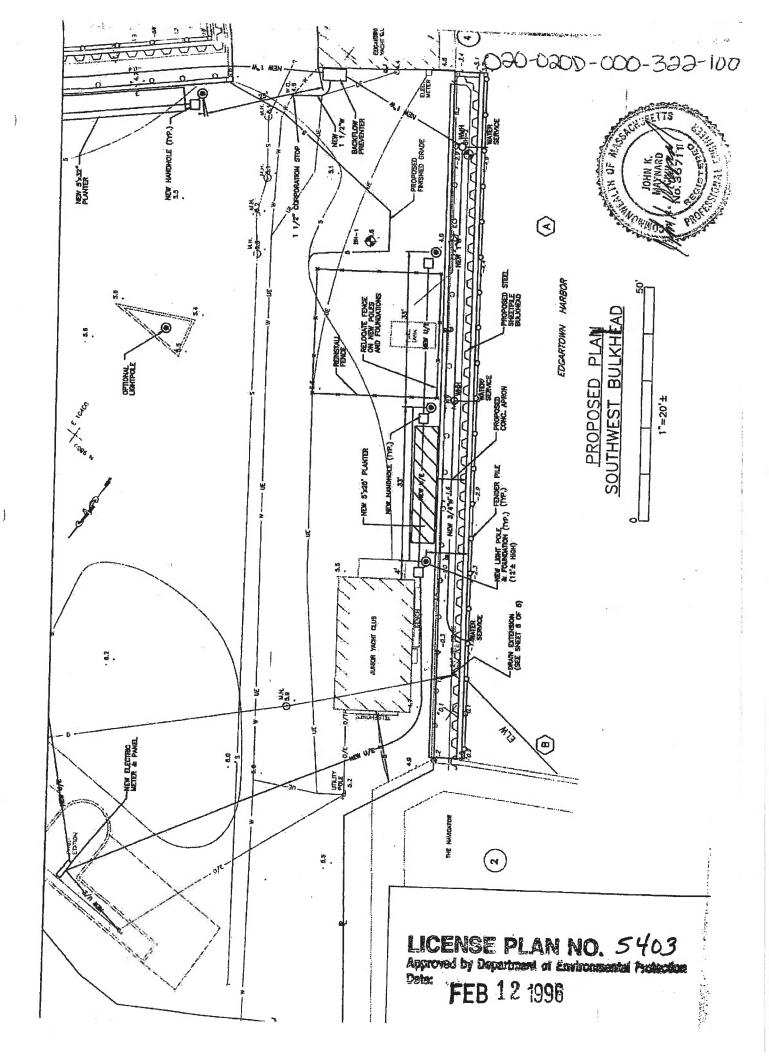


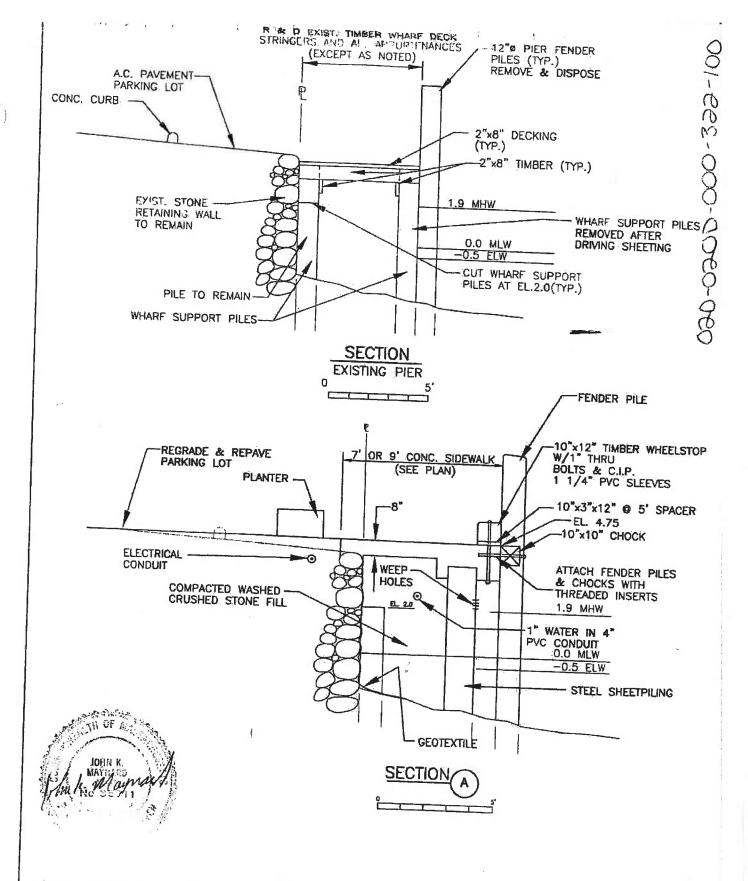


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1. ELEVATIONS REFER TO MEAN LOW WATER (MLW) DATUM.
2. APPROXIMATELY 320 CU. YDS. OF COMPACTED
CRUSHED STONE FILL WILL BE PLACED BEHIND THE PROPOSED STEEL SHEETPILE BULKHEAD.

3. EXCEPT WHERE ELW IS SHOWN ON PLANS MEAN HIGH WATER LEVEL (MHW) AND EXTREME LOW WATER (ELW) LEVEL ARE ALONG FACE OF EXISTING STONE RETAINING WALLS.

4. FLOOD PLAIN BOUNDARIES BEYOND PROJECT AREA. 5. NO EXISTING OR PROPOSED EASEMENTS.

LICENSE PLAN NO. 5403 Approved by Department of Environmental Protection) 38: FEB 12 1996

· 《 新鄉村

1

12"6 SUPPORT PILES

ft. 12.0

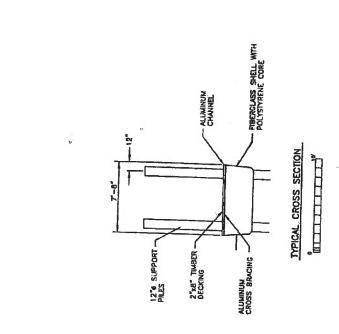
NEW GANGWAY

PROPOSED BULKHEAD

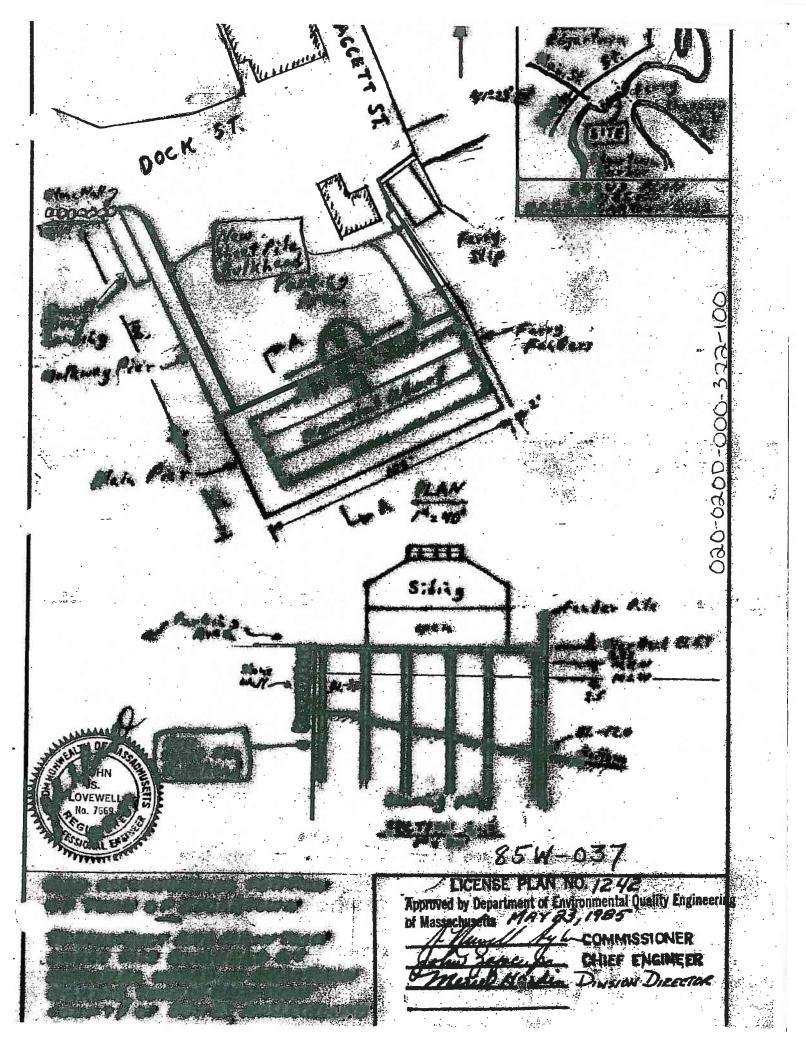
2"x8" TIMBER -DECKING

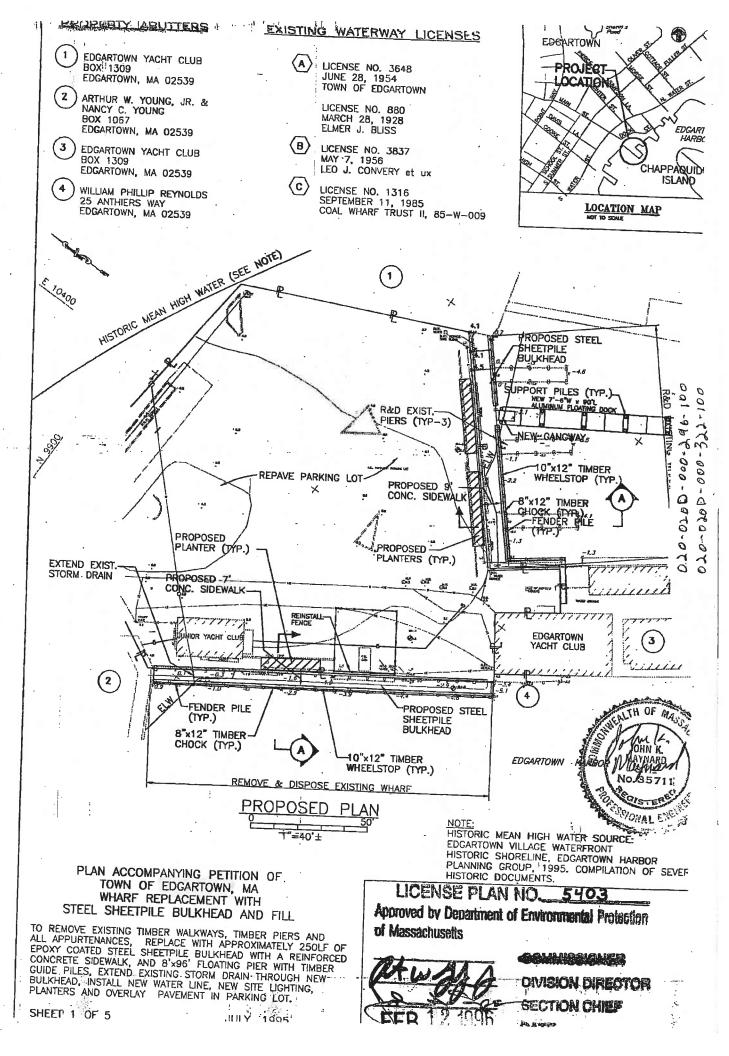
COMPACTED WASHED STONE FILL

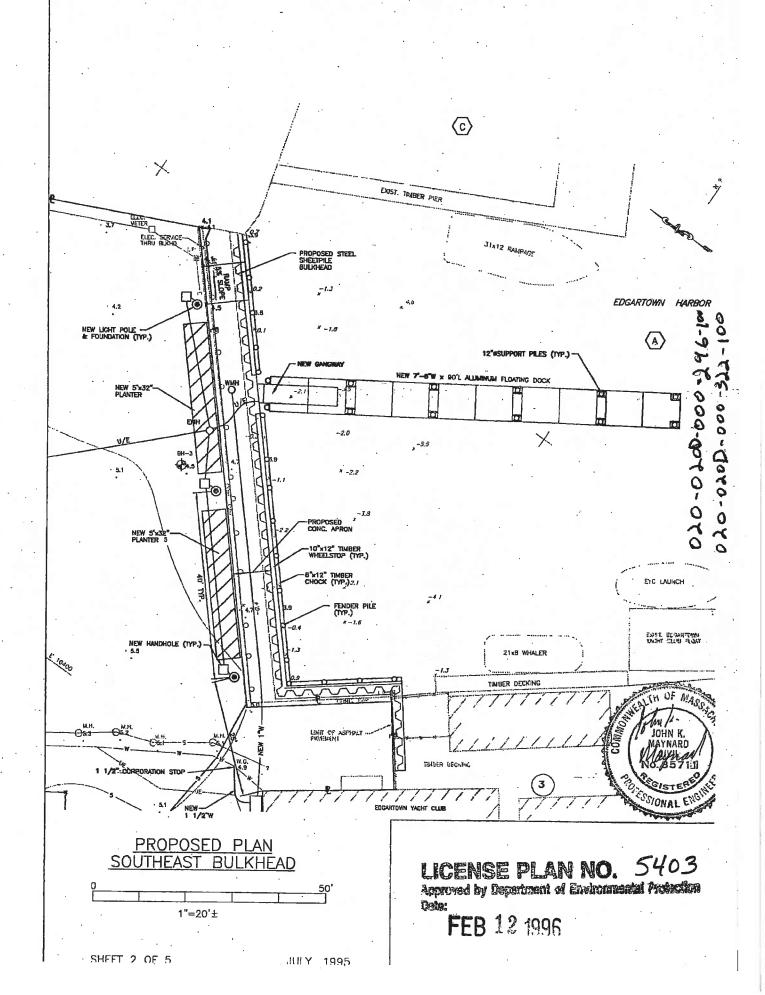
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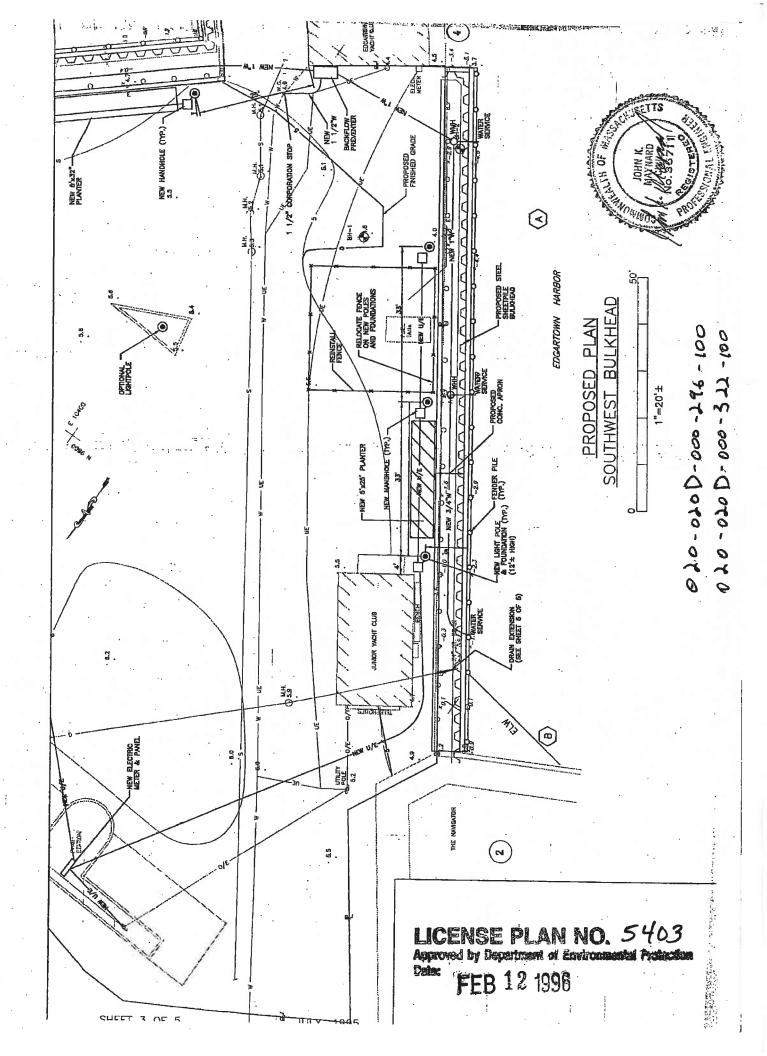
LICENSE PLAN NO. 5403
Approved by Department of Environmental Protection
Date: FEB 12 1996

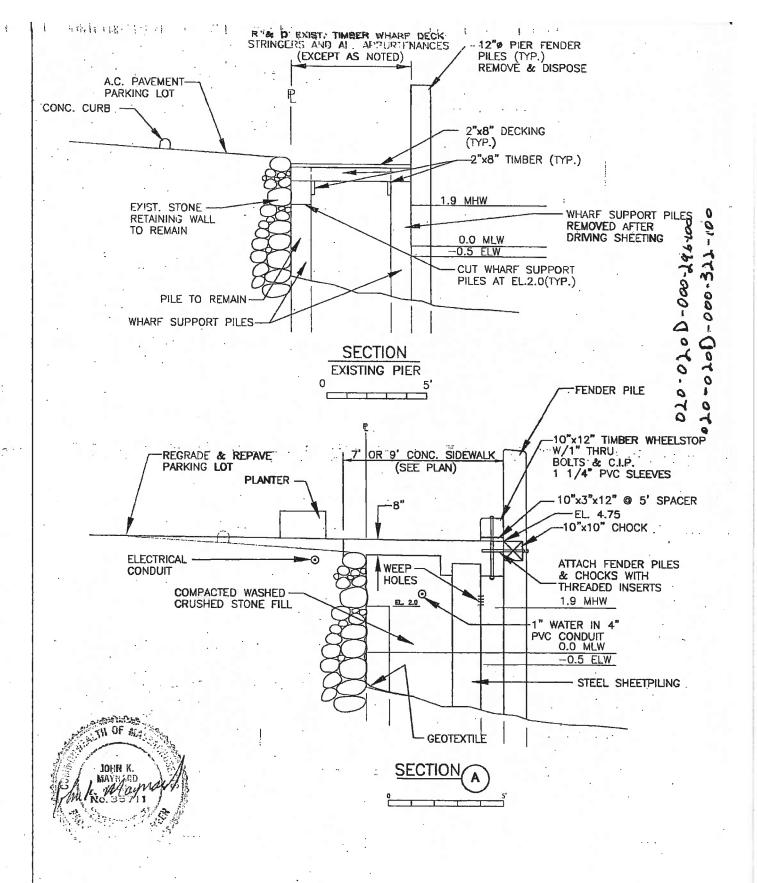






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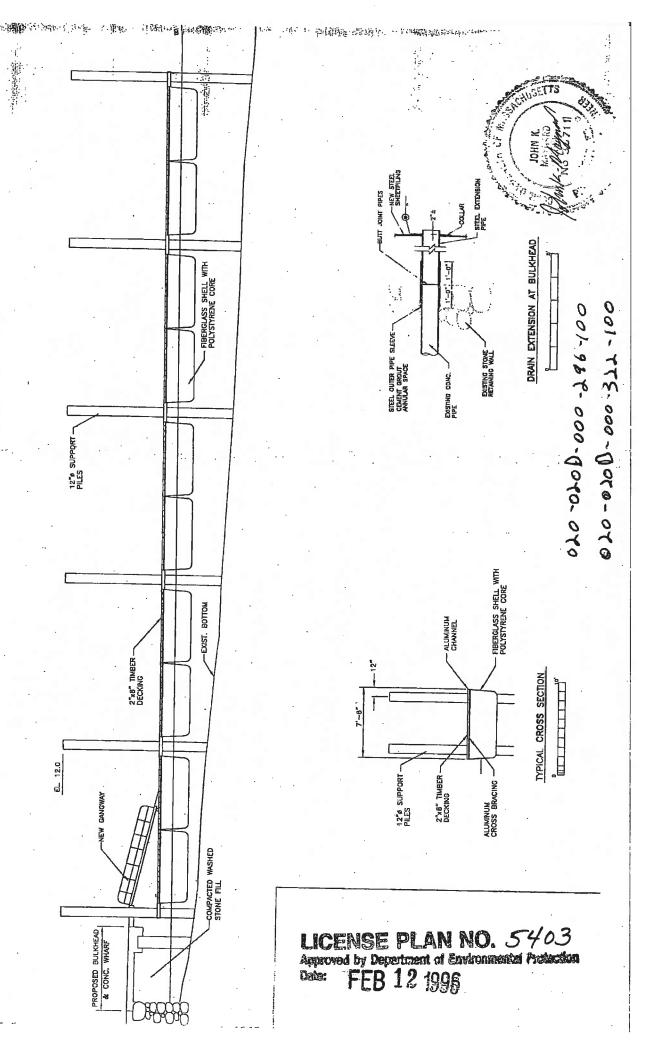
1. ELEVATIONS REFER TO MEAN LOW WATER (MLW) DATUM.
2. APPROXIMATELY 320 CU. YDS. OF COMPACTED CRUSHED STONE FILL WILL BE PLACED BEHIND THE

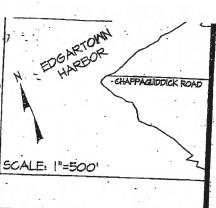
PROPOSED STEEL SHEETPILE BULKHEAD.

3. EXCEPT WHERE ELW IS SHOWN ON PLANS,
MEAN HIGH WATER LEVEL (MHW) AND EXTREME LOW
WATER (ELW) LEVEL ARE ALONG FACE OF EXISTING STONE RETAINING WALLS.

4. FLOOD PLAIN BOUNDARIES BEYOND PROJECT AREA. ---5. NO EXISTING OR PROPOSED EASEMENTS.

LICENSE PLAN NO. 5403 Approved by Department of Environmental Fictionism





CHAPPAQUIDDICK FERRY SLIP

FOR THE

TOWN OF EDGARTOWN MARTHA'S VINEYARD MASSACHUSETTS

BY

STEPHEN F. BERLUCCHI, P.E. DUKES COUNTY ENGINEER

200



PLANS ACCOMPANYING PETITION OF TOWN F EDGARTOWN, MA APRIL 4, 2001

SHEET # 1 OF 2

LICENSE PLAN NU. 9272

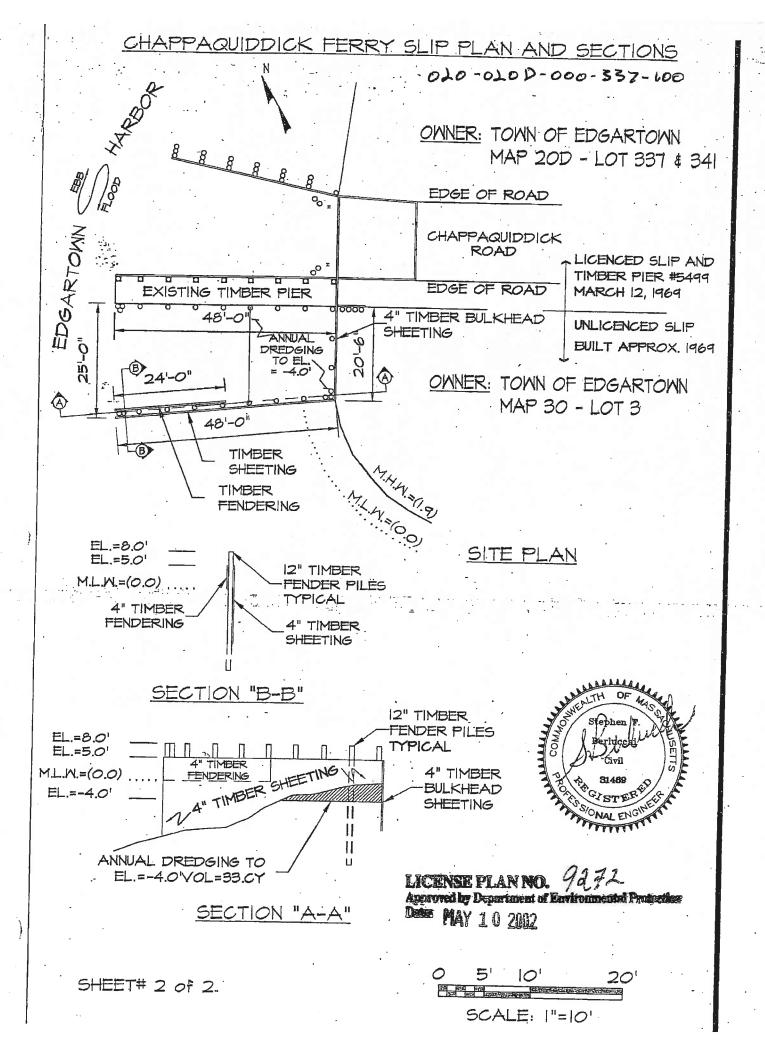
Approved by Department of Environmental Protection of Massachusetts

Mitch Biencina

James G den 11 10 2000

W02-042

GARTONA



TOWN: EDGARTOWN SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
020-020D-000-322-100	20-020D-000-322-100 020-020D-000-322-100-COE1A 199500599	199500599	USACE	Edgartown	July 1995	Town of Edgartown - Proposed Bulkhead	es	Memorial Wharf	Steel Sheet Pile Bulkhead
020-051-000-039-100	20-051-000-039-100 020-051-000-039-100-COE1A	04692	USACE	Edgartown	January 1967	Proposed Access Ramp and Facilities - Katama Bay Edgartown, MA	-	Katama Point	Slane Revetment

620-0300-000-3 PROJECT P=45UICBICK NANT last Chop Lighthouse ape Page Chappaquidick ATLANTIC 70-30-Del ventual mente partir de militar de acontroles URACES RAUME E ET DA LE CLARGETET MASTA LE BLUMBLA NATA UNITÉEL HESTA LE BLUMBLA NATA TOUR ソロハ マ・ビニ PPOPOSED ELLK-E40 SITUARTILA, PERSON AT EDGARTORY WAS PARTAL DISH BYLAD enfloetick <u>an the</u> form of solemnik. IATUM NUHADI VERALIĞ 1-557 : 17 3 1470Y 1995

020-0200 -000-322-100

PROPERTY ABUTTERS EDGAPTOWN YACHT CLUB BOX 1309 EDGAPTOWN WA 02539 (3) SDG2FTUAN, PASSET CLUB BOX 1203 EDGAPTOAN, VA 12539 APTHUR W. YOUNG, UR. & MANCY C. YOUNG BOX 1957 ENGAPTOWN, WA 102539 W.__AM RE__ P PENGLOS 25 ANTHEPS AR EDGAPTOAN, MA 02639 (1) PROPOSED STEEL SHEETPILE BULKHEAD NEW 8'WY90'L FLOATING DOCK F RED EXIST NEW GANCWAY. SUPPORT PILES (TYP.) 10"x12" TIMBER WHEELSTOP (TYP. REPAYE PARKING LOT-PROPOSED 9" --OCK (TYP.). FENDER PILE HIGH TIDE LINE PROPOSED -(TYP.) PLANTERS (TYP.) EXTEND EXIST. STORM DRAIN PROPOSED TYP.) EDGARTOWN YACHT ICLUS (3 2 PROPOSED STEE SHEE PILE (TYP.) 8"x12" TIMBER CHOCK (TYP.) HEELSTOP (TYP.) 1 35111 1. 5753 Ap. 333 **PROPOSED** ESSECTION HARBOR · `=4; =

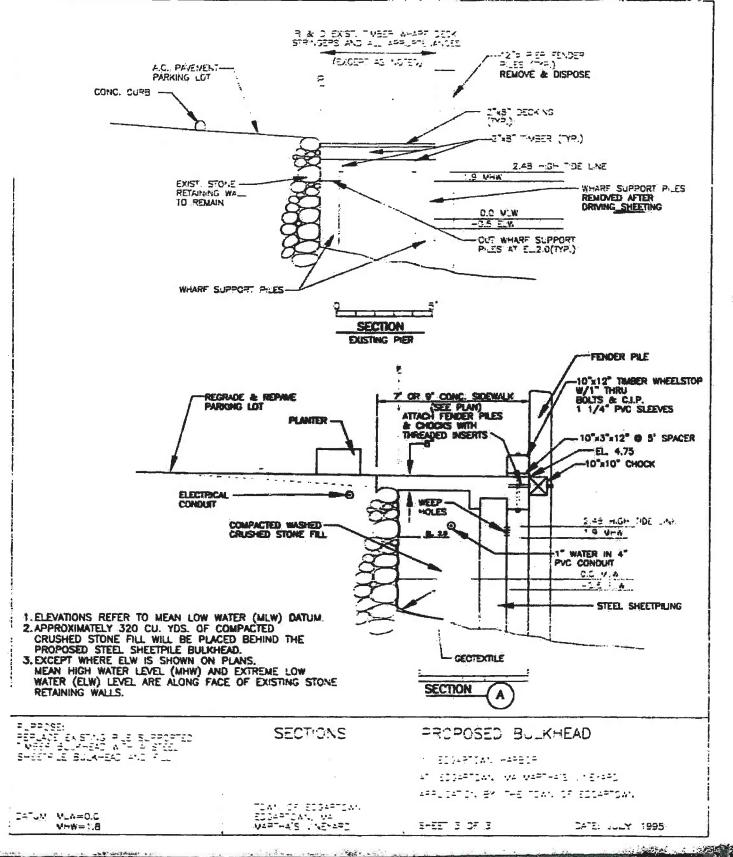
PLAN PROPOSED BULKHEAD

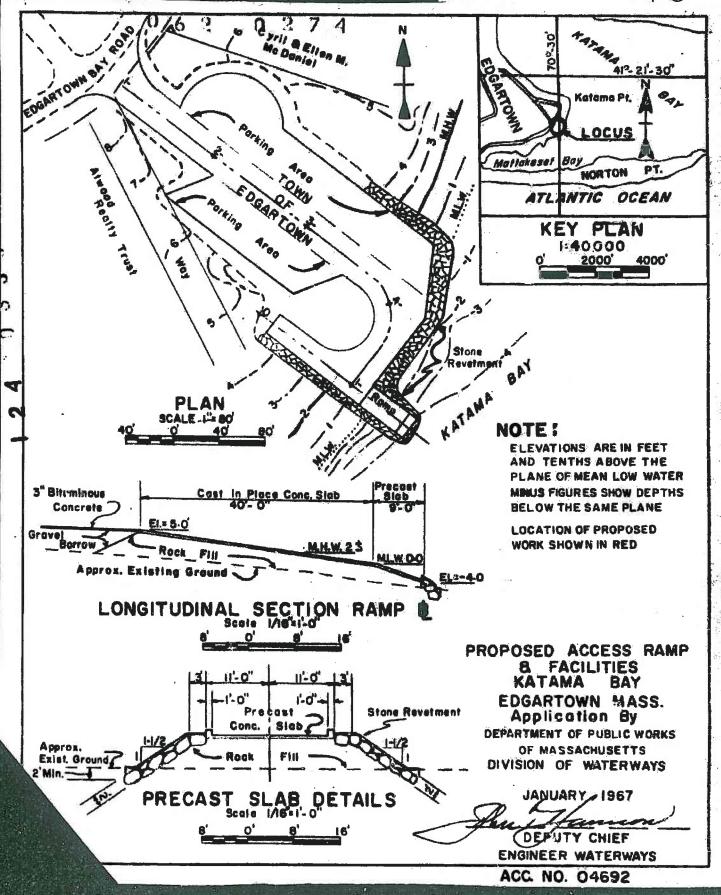
SETURGE SENSING PUS SUPPORTED

WEST SUPPOSED BULKHEAD

**COPOSED BULKHEAD

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Section IV

Oak Bluffs



Section IV - Community Findings - Town of Oak Bluffs

COMMUNITY DESCRIPTION

The Town of Oak Bluffs consists of a land area of 7.37 square miles out of a total area of 8.7 square miles and had a population of 3,713 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 6.4 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Oak Bluffs, there were 29 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 7 in Section IV-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Oak Bluffs

	Total		Struc	ture Condition	Rating		
Primary Structure (1)	Structures	Α	В	С	D	F	Total Length
Bulkhead / Seawall	9	2	3	4			7850
Revetment	8	1	6	1			3000
Breakwater	2			1	1		860
Groin / Jetty	7	1	3	1	2		1890
Coastal Dune							
Coastal Beach	3		3				7600
	29	4	15	7	3		21200

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Oak Bluffs' case there are a total of 25 structures which would require approximately \$ 11.5 million to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 2.4 million would be required to upgrade the Town's coastal protection.

BCE

	Total			Struc	tur	e Condition	Ra	ting		
Primary Structure (1)	Structures	Α .		В		С		D	 F	Total Cost
Bulkhead / Seawall	9		\$	684,156	\$	5,055,732				\$ 5,739,888
Revetment	8		\$	366,333	\$	154,275				\$ 520,608
Breakwater	2				\$	720,600	\$	813,384		\$ 1,533,984
Groin / Jetty	7		\$	108,900	\$	390,390	\$	1,477,476		\$ 1,976,766
Coastal Dune				·						\$ -
Coastal Beach	3		\$	1,615,680			\$	105,600		\$ 1,721,280
	29	6 -	\$ 2	775,069	\$	6,320,997	\$	2,396,460	\$ 	\$ 11,492,526

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Oak Bluffs, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Oak Bluffs

	Total			Struc	tur	e Condition	Ra	ting			
Primary Structure (1)	Structures	A		B		С		D	F	То	tal Cost
Town Owned	24			\$ 1,248,654	\$	5,930,607	\$	2,396,460		\$	9,575,721
Commonwealth of Massachusetts	5			\$ 1,526,415	\$	390,390		• • • • • • • • • • • • • • • • • • • •		\$	1,916,805
Federal Government Owned										\$	-
Unknown Ownership										\$	-
	29	\$	-	\$ 2,775,069	\$	6,320,997	\$	2,396,460 \$	-	\$	11,492,526

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section IV-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Oak Bluffs' coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

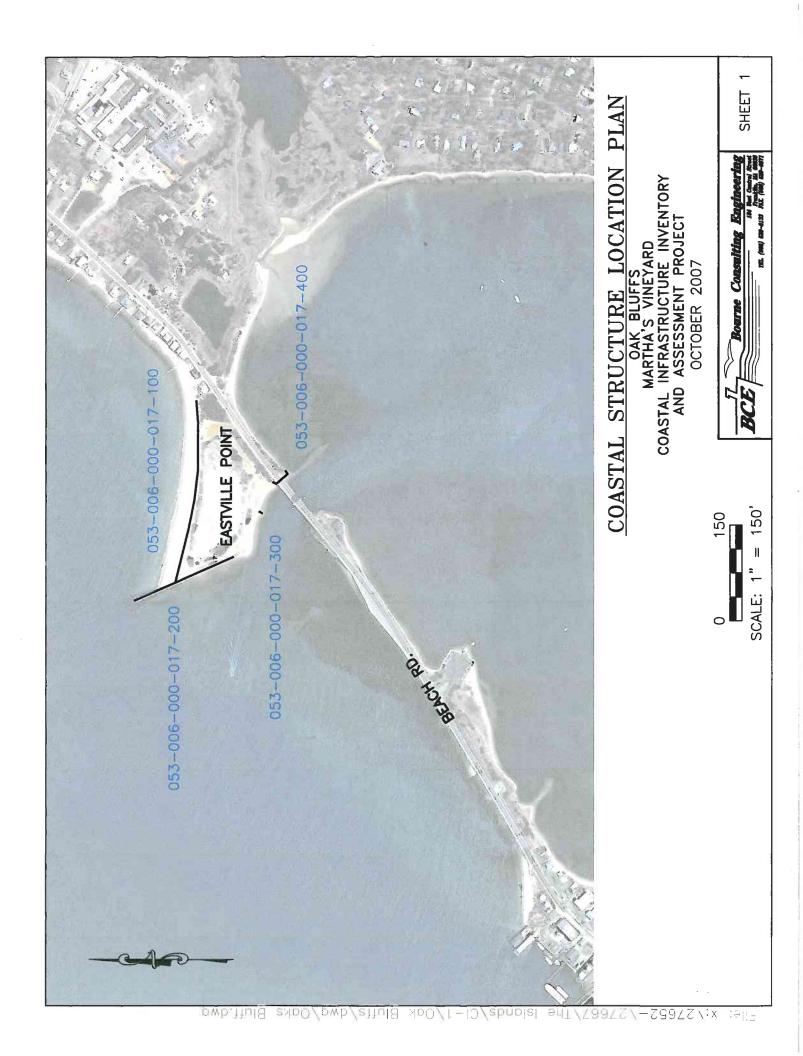


Section IV- Oak Bluffs

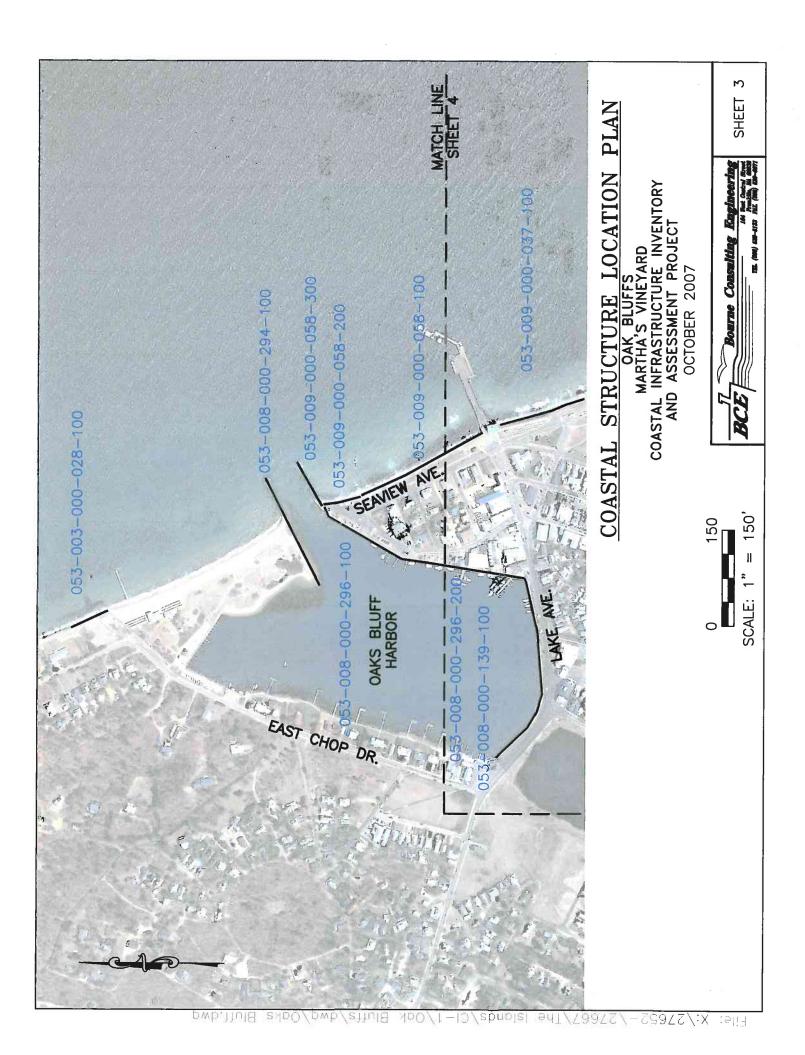
Part B

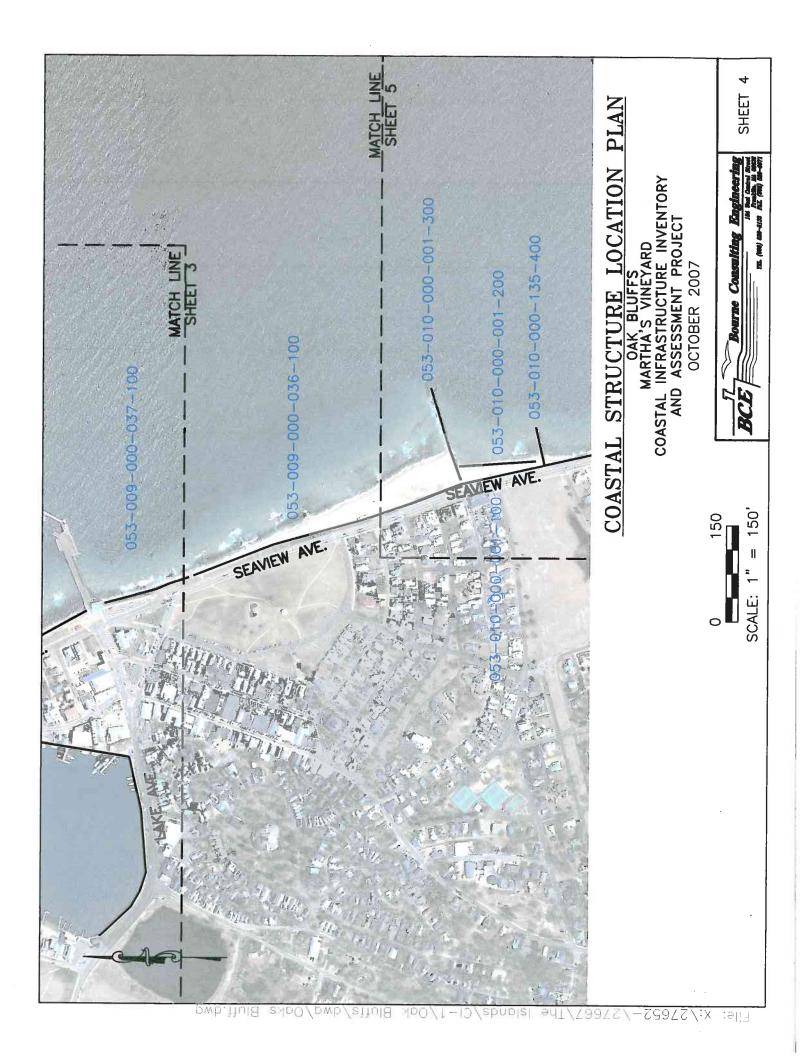
Structure Assessment Reports

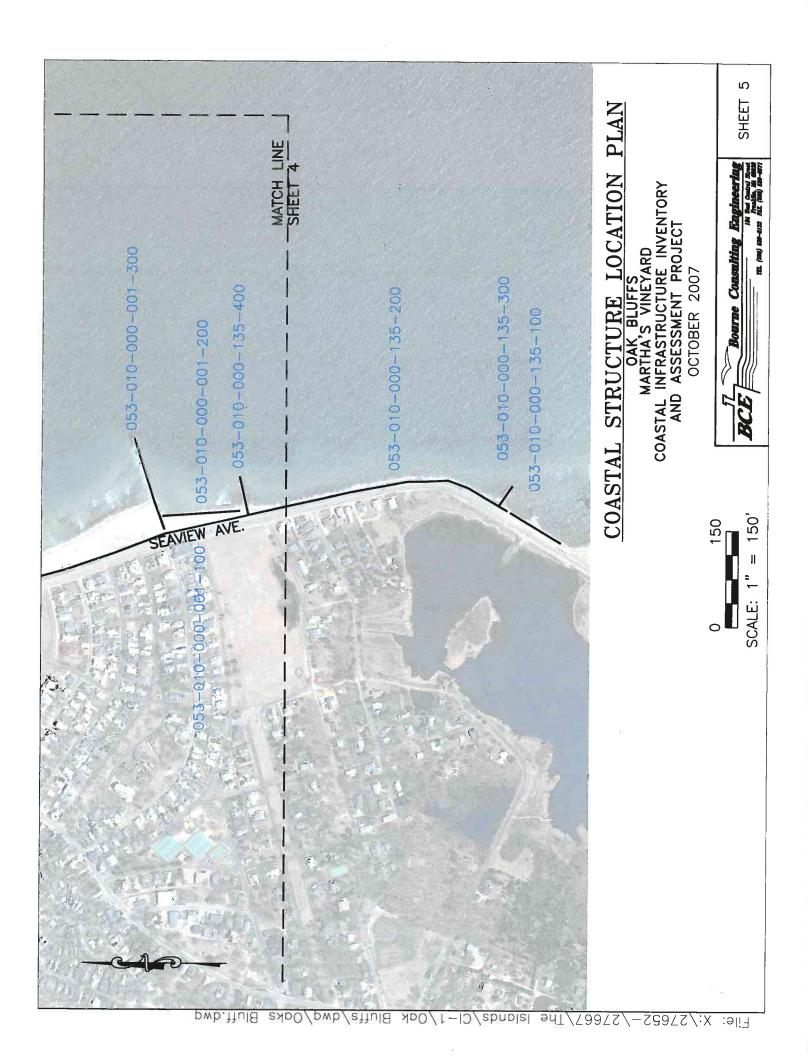


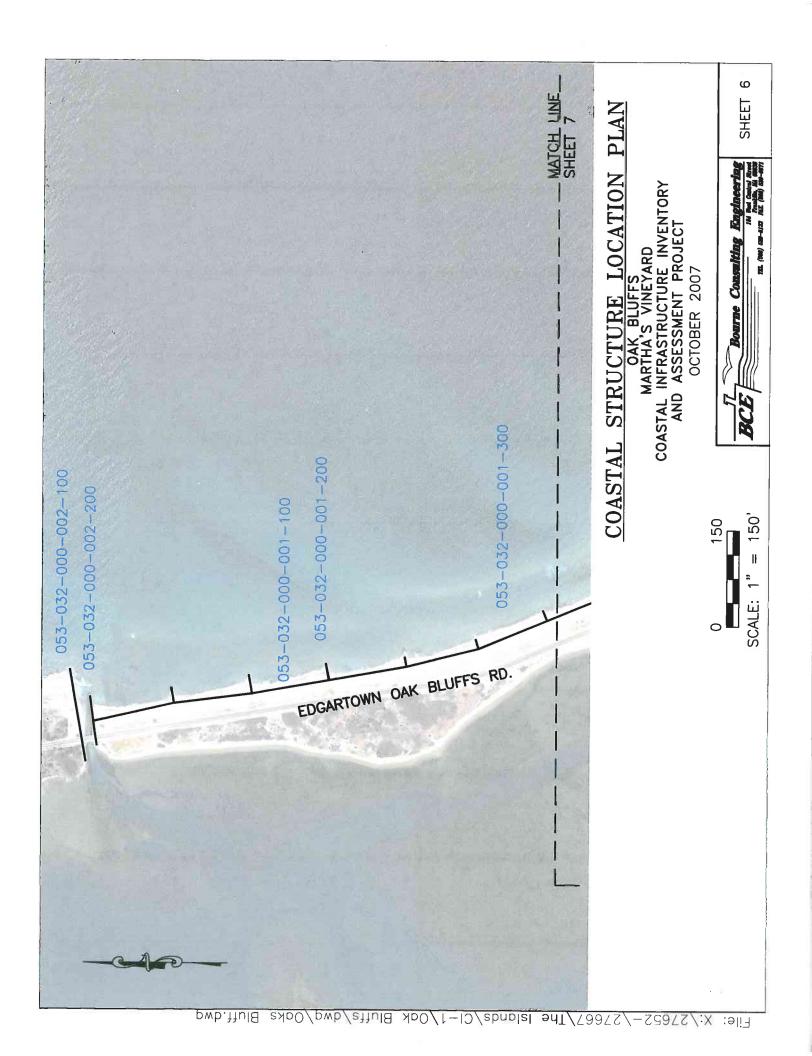


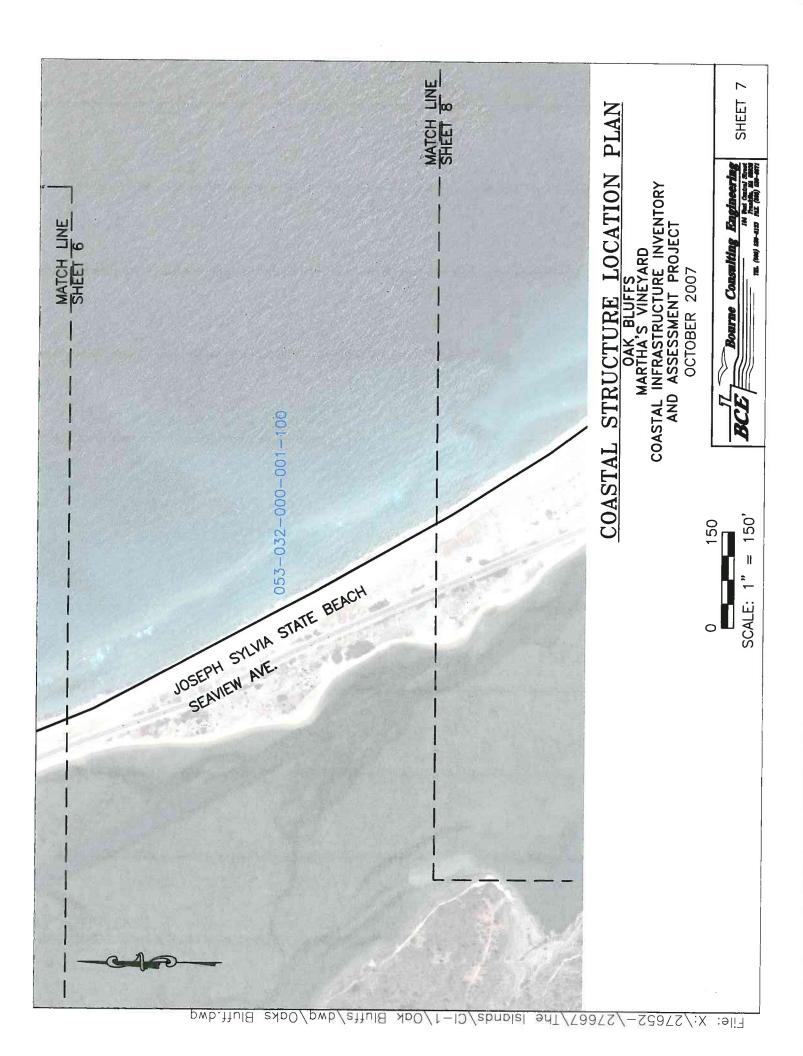


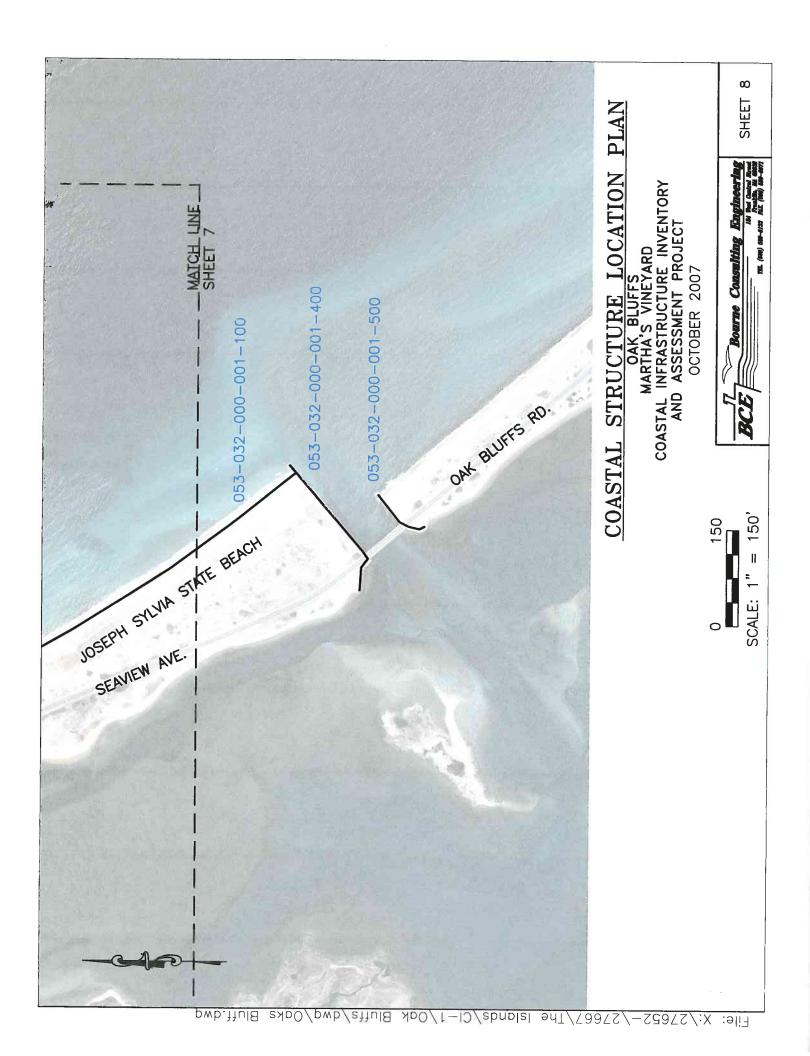












Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-002-000-003-100

Property Owner:		Location:		Date:
Local		East Chop	11.11. 1	10/2/2007
Presumed Structur	e Owner:	Based On Com	ment:	,
Local				
Owner Name: Oak Bluffs		Earliest Structu Unkown	ure Record:	Estimated Reconstruction/Repair Cost: \$30,030.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation)I
250	V9		on: 16	
Feet Feet N	IAVD 88	Feet NGV	D	3-1
Primary Type:	Primary Material:	Primary Height:		
Revetment	Stone	5 to 10 Feet		200
Secondary Type:	Secondary Material:	Secondary Height:		
Structure Summan				verage. There is no visible erosion or scour. Cobble
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection frocoastal storm with no damage. Act o prevent / limit future deterioration life of structure.	nor erosion / landform m a major xtions taken	Priority Rating Action Description	I None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
Structure Image 053-002-000-003-1		cture Document	TS:	

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-003-000-028-100

Property Owner:		Location:			Date:
Local		Highland Driv	re		10/2/2007
Presumed Structure	e Owner:	Based On Cor	mment:		
Local					
Owner Name: Oak Bluffs		Earliest Struct	ture Record:	Estimated R	econstruction/Repair Cost: \$321,816.00
Feet Feet N Primary Type: Bulkhead/ Seawall Secondary Type: Revetment Structure Summary Timber bulkhead w	Secondary Material: Stone	FIRM Map Elevat Feet NG Primary Height: Over 15 Feet Secondary Height 5 to 10 Feet stones are approximately	13 VD t:	feet by 2 feet. There is min	nor erosion and scour at
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken a structure to provide full protection accoastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a night storm. Actions taken to provide admaterial for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Priority Rating Action Description	I None Long Term Planning Co No Inshore Structures o Units Present	
Structure Image 053-003-000-028-10		cture Documer	nts:		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-006-000-017-100

Property Owner:	- 100Mm-1-44Mm-1-4	Location:	and the second s		Date:
Local		Eastville Poin	t	2 22 2 24 24 1	10/2/2007
Presumed Structur	re Owner:	Based On Cor	mment:		
Local					
Owner Name:		Earliest Struc	ture Record:	Estimated	Reconstruction/Repair Cost:
Oak Bluffs		Unkown			\$224,400.00
Length: Top E	Elevation: FIRM Map Zone:	FIRM Map Elevat	tion:		
1000	V9		14		
Feet Feet M	NAVD 88	Feet NG	VD		
Primary Type:	Primary Material:	Primary Height:			22
Coastal Beach	Sand	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
				The second second	
Structure Summan					
Sandy beach with	an approximately 1 on 20 slope. T	he beach is stepped	and graded unifor	rmly.	
Condition	В		Priority	I .	
Rating	Good		Rating	None	
Level of Action	Minor		Action	Long Term Planning C	Considerations
Description	Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection from coastal storm with no damage. A to prevent / limit future deteriorati life of structure.	linor erosion / landform om a major ctions taken	Description	Units Present	or Residential Dwelling
Structure Image	es: Stro	ucture Documer	nts:		•
053-006-000-017-1					
		,			

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-006-000-017-200

Property Owner:		Location:		Date:	- I
Local		Eastville Point			10/2/2007
Presumed Structure	e Owner:	Based On Com	ment:	,	The state of the s
Local					
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruct	ion/Repair Cost: \$720,600.00
					4720,000.00
Length: Top E	levation: FIRM Map Zone: V9	FIRM Map Elevation	 -	The state of the s	
1	IAVD 88	Feet NGV	14 'D		
Primary Type: Breakwater Secondary Type: Structure Summary	Primary Material: Stone Secondary Material:	Primary Height: 5 to 10 Feet Secondary Height			
		erate stone moveme	ent and minor sco	ur. Behind is coastal beach and parki	ng area.
Condition	С		Priority	1	
Rating	Fair		Rating	None	
Level of Action Description	Moderate Structure is sound but may exhibit deterioration, section loss, crackin		Action Description	Long Term Planning Consideratio No Inshore Structures or Residen Units Present	
	undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a night storm. Actions taken to provide admaterial for full protection and extending the storm.	ire adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition		Cinia i resent	
Structure Image 053-006-000-017-20		cture Document	DS:		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-006-000-017-300

Property Owner:		Location:		Date:
Local		Eastville Point		10/2/2007
Presumed Structure	e Owner:	Based On Comm	ent:	,
Local				
Owner Name:		Earliest Structur	e Record:	Estimated Reconstruction/Repair Cost: \$31,625.00
		J.		+01/025/00
Length: Top E	levation: FIRM Map Zone:		_	The Real Property of the Control of
1	IAVD 88	Feet NGVD		Lipa .
Primary Type:	Primary Material:	Primary Height:	<u>.</u> ,	Elec.
Groin/ Jetty	Wood	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height:	_	
Structure Summary			The state of the s	
Timber grown with I	moderate to severe deterioration.	Groin extends out pas	mean low wate	er. I nere is minor scour visible.
Condition	D		Priority	1
Rating	Poor		Rating	None
Level of Action	Major Structure exhibits advanced leve		Action	Long Term Planning Considerations
Description	deterioration, section loss, crack undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be init taken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Actic recreate landform to adequate lip protection from a major coastal st	cing, spalling, cture has and possible orm. Structure tiated. Actions regain full all storm. le protection ons taken to mits for full	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Image 053-006-000-017-30		ructure Documents		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-006-000-017-400

Property Owner:		Location:		D	ate:
Local		Eastville Point	<u> </u>		10/2/2007
Presumed Structur	e Owner:	Based On Com	ment:	Į.	
Local					
Owner Name:		e Earliest Structu	ire Record:	Estimated Deco	onstruction/Repair Cost:
Oak Bluffs		Unkown	ire Record.	Esumated Rect	\$154,275.00
Length: Top E	levation: FIRM Map Zone		on:		Maria de la constante de la co
	IAVD 88	Feet NGV			
			U		
Primary Type: Revetment	Primary Material: Stone	Primary Height: Over 15 Feet			39
Secondary Type:	Secondary Material:	,		SOFT N	
Coordary Type.	Secondary Material:	Secondary Height			
Structure Summary	,·	•			25
	oridge abutment. Moderate stone	movement. Stones a	re approximately	200 pounds on average.	
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Considerati	on
Description	Structure is sound but may exhi deterioration, section loss, crack undermining, and/or scour. Stru to withstand major coastal storm moderate damage. Actions take structure to provide full protectic coastal storm and for extending structure. Moderate wind or war landform exists. Landform may to fully protect shoreline during a storm. Actions taken to provide material for full protection and extending the storm of the s	king, spalling, cture adequate n with little to on to reinforce on from major life of we damage to not be sufficient a major coastal addition	Description	Inshore Structures Presen potential for Significant Inf	
Structure Image 053-006-000-017-4		ructure Document	s:		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-008-000-139-100

Property Owner:		Location	n:		Date:
Local		Lake Ave	enue		10/2/2007
Presumed Structur	re Owner:	Based On	Comment:		
Local			A. A		<u> </u>
Owner Name:		! Earliest S	Structure Record:	Fe	timated Reconstruction/Repair Cost:
Oak Bluffs		Unkown	detare record.	1	\$1,716,000.00
Length: Top E	Elevation: FIRM Map 2	Zone: FIRM Map El	levation:		
[]	NAVD 88		t NGVD	B. Carlot	
Primary Type: Bulkhead/ Seawal	Primary Material: Steel	Primary Heig Over 15 Fee	T		
Secondary Type:	Secondary Material:	,			
Secondary Type.	Secondary Material.	Secondary H	leignt:		
Structure Summar		įs.		STATE OF THE SECOND	
		e cap is 2 feet wide.	There is minor cra	cking on the cap. Mo	derate corrosion on the sheet pile.
There is a road an	nd historical building behind th	e structure.			, , , , , , , , , , , , , , , , , , , ,
Condition	С		B +	V	
Conaition Rating	Fair		Priority Pating	v Immediate / H	lighest Priority
Level of Action	Moderate		Rating Action		Immediate Action Due to Public
Description	Structure is sound but may			Safety and W	
	deterioration, section loss, of undermining, and/or scour. to withstand major coastal significant moderate damage. Actions structure to provide full proticoastal storm and for extensistructure. Moderate wind or landform exists. Landform to fully protect shoreline dur storm. Actions taken to provimaterial for full protection and	Structure adequate storm with little to taken to reinforce ection from major ding life of r wave damage to nay not be sufficienting a major coastal vide addition	Description	Potential for la High Density I of structure m stabilization a loss of proper	e Structures Present with nfrastructure Damage and/or Residential Dwellings Condition ay warrant emergency s failure may result in potential ty and/or life. (>10 dwellings 0 feet of shoreline)
Structure Imag		Structure Docur	ments:		
053-008-000-139-1	100-PHO1A.JPG	USACE		Proposed Bulkhead,	053-008-000-139-100-COE1A
		USACE		Proposed Timber	053-008-000-139-100-COE1B
		USACE		Proposed Bulkhead	053-008-000-139-100-COE1C
		MA-DCR		Proposed Bulkhead	053-008-000-139-100-DCR1A
		MA-DCR		Proposed Harbor	053-008-000-139-100-DCR1B
		DEP		Plans Accompanying	053-008-000-139-100-LIC1A
		DEP		Plan Accompanying	053-008-000-139-100-LIC1B
		DEP	October 19,	Plan Accompanying	053-008-000-139-100-LIC1C

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-008-000-294-100

Property Owner:		Location:			Date:
Local		Oak Bluffs H	arbor		10/2/2007
Presumed Structur	re Owner:	Based On Co	mment:		
Local					
" Owner Name:		Earliest Struc	ture Pecord:	Estimated Por	construction/Repair Cost:
Oak Bluffs		Unkown	cure Record.	LSumated Rec	\$1,477,476.00
	levation: FIRM Map		tion:		
615		A10	9		
Feet Feet N	NAVD 88	Feet NG	GVD		
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	5 to 10 Feet		4年20	
Secondary Type:	Secondary Material:	Secondary Heigh	nt:		**
1	1				THE PARTY OF
Structure Summar					
stones. There is a	n old concrete jetty visible b	ut deteriorating in the mid	in size, but are on a	average 3 feet by 1.5 feet by e.	1.5 leet. Many Smaller
Condition	D		Priority	II	
Rating	Poor		Rating	Low Priority	
Level of Action	Major		Action	Future Project Considera	
Description	Structure exhibits advance deterioration, section loss, undermining, and/or scour strong risk of significant da failure during a major coas should be monitored until repairs/reconstruction can taken to reconstruct struct capacity to resist a major of Landform eroded, stability Landform not adequate to during major coastal storm recreate landform to adequate protection from a major coastal storm.	cracking, spalling, Structure has image and possible tal storm. Structure be initiated. Actions ure to regain full coastal storm. threatened. provide protection Actions taken to uate limits for full	Description	Inshore Structures Prese potential for Significant Ir	
Structure Image 053-008-000-294-1		Structure Docume	nts:		
053-008-000-294-1	00-PHO1B.JPG				
053-008-000-294-1	00-PHO1C.JPG				

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-008-000-296-100

roperty Owner:		Location	:		Date:			
Local Presumed Structure Owner:		Circuit Ave	Circuit Avenue Extension		10/2/200			
		Based On (Based On Comment:					
ocal					(III. C. Equations of the same			
Owner Na me:		;} Farliect Str	nicture Pecord	Ea	Estimated December which / Density Control			
		1970	Earliest Structure Record: 1970		Estimated Reconstruction/Repair Cos \$0.0			
		Į.						
ength: Top I	Elevation: FIRM Ma	A10 FIRM Map Ele	vation:					
Į.	NAVD 88		9 NGVD					
				THE WILLIAM				
imary Type: ulkhead/ Seawa	Primary Material Steel	Primary Heigh Over 15 Feet	311 M M M					
	e e	•						
econdary Type:	Secondary Materi	al: Secondary He	ignt:		11			
tructure Summar	n/ :	y			B			
		e cap and timber fender n	iles. Behind the str	ructure is a board w	alk, parking lot and houses.			
Condition Rating Excellent Level of Action Description Like new condition. Structure withstand major coastal storm Stable landform (beach, dune Adequate system exists to profrom major coastal storm.		storm without damage. dune or bank). to provide protection	without damage. or bank).		IV High Priority Consider for Next Project Construction Listing High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)			
USA USA USA		USACE	September 1 Pr	roposed Bulkhead roposed Harbor	053-008-000-296-100-COE1A 053-008-000-296-100-COE1B			
3 000 000-230-		MA-DCP	February 10	cal Sheet Dilina	DES 008 000 306 400 DOD44			
0 000 000-230-		MA-DCR DEP		eel Sheet Piling ans Accompanying	053-008-000-296-100-DCR1A 053-008-000-296-100-LIC1A			

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-008-000-296-200

Property Owner:			Location			Date:		
Local Presumed Structure Owner: Local Owner Name: Oak Bluffs			Circuit Ave	Circuit Avenue Extension		10/2/200		
			Based On	Comment:		,		
			22324 011					
			J					
				Earliest Structure Record: 1970		Estimated Reconstruction/Repair Cost: \$943,800.00		
			11970			\$943,800.00		
Length: Top Elevation: FIRM Map Zone:			ne: FIRM Map Ele	evation:				
550 A10		A10	9					
Feet Feet N	IAVD 88		Feet	NGVD		THE CONTRACT OF THE PARTY OF TH		
Primary Type:		Primary Material:	Primary Heigh	nt:	and the same			
Bulkhead/ Seawall		Steel	Over 15 Feet		BANK PARTY BANK			
Secondary Type:		Secondary Material:	Secondary He	ight:	一万丁	"Ti		
	-				7.1			
Structure Summary	/ :				No.			
Steel sheet pile bul sheet pile.	lkhead w	ith concrete cap. The	cap is 2 feet wide.	There is mi nor o	racking on the cap. Th	nere is moderate corrosion on the		
Condition	С			Priority	IV			
Rating	Fair			Rating	High Priority			
Level of Action	Modera			Action	Consider for	Next Project Construction Listing		
Description	deterior underm to withs modera structur coastal structur landform to fully storm.	re is sound but may exation, section loss, cration, and/or scour. Stand major coastal strate damage. Actions take to provide full protect storm and for extending extending the major to the storm and for extending extending the major to the store in exists. Landform major to the store in the	acking, spalling, tructure adequate orm with little to aken to reinforce ction from major ng life of wave damage to ay not be sufficient ig a major coastal de addition	g, spalling, ire adequate ith little to o reinforce from major e of damage to be sufficient hajor coastal dition		High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)		
				_				
			Structure Docum	September 1	Proposed Bulkhead	053-008-000-296-200-COE2A		
			USACE	March 1970	Proposed Bulknead Proposed Harbor	053-008-000-296-200-COE2A 053-008-000-296-200-COE2B		
			MA-DCR		Steel Sheet Piling	3		
			DEP	February 19	·	053-008-000-296-200-DCR2A		
			DEP	November 3	Plan Accompanying	053-008-000-296-200-LIC2A		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-009-000-036-100

		Location:	Location:		Date:			
Local		Seaview Av	Seaview Avenue		10/2/			
Presumed Structur	e Owner:	Based On C	Comment:	ı				
ocal								
Owner Name:		Earliest Stm	istina Dagardi	F.	-titd Danasah			
Oak Bluffs		1925	Earliest Structure Record:		Estimated Reconstruction/Repair Cost: \$283,140.00			
						Ψ203,110.00		
	Elevation: FIRM Ma	ap Zone: FIRM Map Elev	ation:					
1300		V9	22					
Feet Feet M	NAVD 88	Feet N	IGVD					
rimary Type:	Primary Material	Primary Height	•		The same			
ulkhead/ Seawall	Concrete	5 to 10 Feet		N. C.	1			
econdary Type:	Secondary Materi		ght:	少多				
levetment	Stone	Under 5 Feet		T. F.	1			
tructure Summan	y:			A		がは他を受し		
ondition ating	B Good		Priority Rating	V Immediate / I	Highest Priority			
evel of Action	Minor		Action	Consider For Immediate Action Due		Due to Public		
escription (Structure observed to ex		or	Safety and Welfare Issues				
	problems, superficial in a to landform is present. adequate to provide protocoastal storm with no dato prevent / limit future diffe of structure.	Structure / landform ection from a major mage. Actions taken	e / landform om a major Actions taken		Critical Inshore Structures Present with Potential for Infrastructure Damage and/or High Density Residential Dwellings Condition of structure may warrant emergency stabilization as failure may result in potential loss of property and/or life. (>10 dwellings impacted / 100 feet of shoreline)			
		MA-DCR	May 1925 Prop March 1946 Prop	osed Concrete	053-009-000-0 053-009-000-0	36-100-DCR1B		
ructure Image 3-009-000-036-1		MA-DCR MA-DCR MA-DCR	May 1925 Prop March 1946 Prop January 196 Prop		053-009-000-0	36-100-DCR1B 36-100-DCR1C		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-009-000-037-100

Property Owner:		Location:			Date:
Local		Seaview Aven	ue		10/2/2007
Presumed Structur	e Owner:	Based On Con	nment:		,
Local					
Owner Name: Oak Bluffs		Earliest Struct Unkown	ure Record:	Estimated R	econstruction/Repair Cost: \$111,078.00
Feet Feet M Primary Type: Revetment Secondary Type: Structure Summan	Primary Material: Stone Secondary Material: y: Tap on coastal bank. The stones are	Feet NG\ Primary Height: Over 15 Feet Secondary Height	22 /D :-	eet in size. There is minor	stone movement. Behind
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection from coastal storm with no damage. Act to prevent / limit future deterioration life of structure.	minor nor erosion / landform m a major ctions taken	Priority Rating Action Description	V Immediate / Highest Pr Consider For Immediate Safety and Welfare Issu Critical Inshore Structu Potential for Infrastructu High Density Residentia of structure may warran stabilization as failure n loss of property and/or impacted / 100 feet of s	iority a Action Due to Public ues res Present with ure Damage and/or al Dwellings Condition t emergency nay result in potential ife. (>10 dwellings
Structure Image 053-009-000-037-1		icture Documen	ts:		

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-009-000-058-100

ocal		Location:		Da	ate:
ocar		Seaview Ave	enue Extension		10/2/2007
resumed Structui	re Owner:	Based On Co	omment:	,	
ocal			<u> </u>		
wner Name:		Earliest Stru	cture Record:	Estimated Reco	nstruction/Repair Cost:
ak Bluffs		1940		Louinded Reco	\$190,344.00
The second secon	Elevation: FIRM Map	The second secon			
700		V9	22	The state of the s	
Feet Feet I	NAVD 88	Feet No	GVD		
rimary Type:	Primary Material:	Primary Height:			
ulkhead/ Seawall	Concrete	5 to 10 Feet			
econdary Type:	Secondary Material:		ht:		
evetment	Stone	5 to 10 Feet			
ructure Summan	y:				
n average. Behir	nd is a road and houses.		F 5. 6.6 Well Hove U	umped riprap. Stone size is 4 f	cot by 2 reet by 2 reet
ondition	В		Priority	IV	
ating	Good		Rating	High Priority	
evel of Action Description	Minor Structure observed to exhil	4	Action Description	Consider for Next Project (High Value Inshore Structu	
	problems, superficial in nat to landform is present. St adequate to provide protec coastal storm with no dama to prevent / limit future deta life of structure.	ructure / landform tion from a major age. Actions taken		for Infrastructure Damage Density Residential Dwellir impacted / 100 feet of shor	ngs (1-10 dwellings
	nie of structure.				
ructure Image	es:	Structure Docume			
ructure Image 3-009-000-058-1	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A
	es:			osed Repairs to 053-009-00	00-058-100-DCR1A

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-009-000-058-200

Property Owner:		Location:			Date:
Local		Seaview Avenu	ue Extension		10/3/2007
Presumed Structure	e Owner:	Based On Com	ment:		•
Local	2 (20 A) (4) (2 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)				
Owner Name:		Earliest Structu	ıre Record:	Estimated R	econstruction/Repair Cost:
Oak Bluffs		Unkown			\$0.00
The second secon	levation: FIRM Map Zone:	FIRM Map Elevation	on:		
200	V9		22		
Feet Feet N	IAVD 88	Feet NGV	'D		
Primary Type:	Primary Material:	Primary Height:	<u></u>		
Bulkhead/ Seawall	Concrete	10 to 15 Feet		THE PARTY OF THE P	1
Secondary Type:	Secondary Material:	Secondary Height	<u>:_</u> -		
Revetment	Stone	10 to 15 Feet			
Structure Summary	77.7	5100 to 2015			
	cast in place concrete seawall with r	ecurved wall. At the	e toe of the wall is	dumped stone ranging in s	size, but average size is 3
feet by 2 feet by 2	reet.				
Condition	A		Priority	IV	
Rating	Excellent		Rating	High Priority	
Level of Action	None		Action	Consider for Next Proje	ect Construction Listing
Description	Like new condition. Structure exp withstand major coastal storm wit Stable landform (beach, dune or t Adequate system exists to provide from major coastal storm.	hout damage. pank).	Description	High Value Inshore Stri for Infrastructure Dama Density Residential Dw impacted / 100 feet of s	ige and/or Moderate rellings (1-10 dwellings
Structure Image	es: Stru	ucture Documen	ts:		
053-009-000-058-2	00-PHO2A.JPG DEF	Ma	y 21, 200 Plan	s Accompanying 053-00	9-000-058-200-LIC2A

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-009-000-058-300

Secondary Type: Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition Rating Poor Level of Action Major	FIRM Map Zone: V9 Primary Material: Stone Secondary Material:	Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	ture Record: tion: 22 VD	Estimated Reconstruction/Repair Cost: \$813,384.00 by 3 feet by 3 feet in size. Mild stone movement and
Condition Downer Name: Oak Bluffs Length: Top Elevation: 260 Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition D Rating Poor Level of Action Major	FIRM Map Zone: V9 Primary Material: Stone Secondary Material:	FIRM Map Eleva Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	ture Record: tion: 22 VD tt: and average 10 feet	\$813,384.00 by 3 feet by 3 feet in size. Mild stone movement and
Owner Name: Oak Bluffs Length: Top Elevation: 260 Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Osection loss. Condition D Rating Poor Level of Action Major	Primary Material: Stone Secondary Material:	FIRM Map Eleva Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	tion: 22 VD tt:	\$813,384.00 by 3 feet by 3 feet in size. Mild stone movement and
Oak Bluffs Length: Top Elevation: 260 Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition D Rating Poor Level of Action Major	Primary Material: Stone Secondary Material:	FIRM Map Eleva Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	tion: 22 VD tt:	\$813,384.00 by 3 feet by 3 feet in size. Mild stone movement and
Length: Top Elevation: 260 Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition D Rating Poor Level of Action Major	Primary Material: Stone Secondary Material:	FIRM Map Eleva Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	VD at: and average 10 feet	\$813,384.00 by 3 feet by 3 feet in size. Mild stone movement and
Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition D Rating Poor Level of Action Major	Primary Material: Stone Secondary Material:	Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	VD at: and average 10 feet	
Feet Feet NAVD 88 Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition D Rating Poor Level of Action Major	Primary Material: Stone Secondary Material:	Feet NG Primary Height: 10 to 15 Feet Secondary Heigh	vD it: nd average 10 feet	
Primary Type: Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Condition Condition Rating Poor Level of Action D Major	Stone Secondary Material:	Primary Height: 10 to 15 Feet Secondary Heigh	nt: and average 10 feet	
Breakwater Secondary Type: Structure Summary: Breakwater at entrance of Cosection loss. Condition Rating Poor Level of Action Major	Stone Secondary Material:	10 to 15 Feet Secondary Heigh	nd average 10 feet	
Structure Summary : Breakwater at entrance of Condition Down Rating Poor Level of Action Major			nd average 10 feet	
Structure Summary : Breakwater at entrance of Condition D Rating Poor Level of Action Major			nd average 10 feet	
Breakwater at entrance of Condition D Rating Poor Level of Action Major	Oak Bluffs Harbor. The st	tones are dumped a		
Rating Poor Level of Action Major			Priority	
Level of Action Major			-	III
			Rating	Moderate Priority
	e exhibits advanced leve	els of	Action	Consider for Active Project Improvement Listing
deterior underm strong r failure d should l repairs/ taken to capacity Landfor during n recreate	ation, section loss, crack ining, and/or scour. Stru isk of significant damage uring a major coastal stope monitored until reconstruction can be init reconstruct structure to to resist a major coastal meroded, stability threat mot adequate to providuajor coastal storm. Actic landform to adequate lip from a major coastal storm from a major coastal storm.	e and possible orm. Structure tiated. Actions regain full al storm. tened. tened. tened. tened. tened taken to mits for full	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
ructure Images:		ructure Docume		
53-009-000-058-300-PHO3	A.JPG MA	A-DCR S	eptember 1 Prop	osed Harbor 053-009-000-058-300-DCR3A

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-010-000-001-100

Property Owner:		Locatio	n:		Date:
Local		Seaview	Avenue		10/2/2007
Presumed Structur	re Owner:	Based Or	n Comment:		·
Local					
Owner Name:) Farliect S	Structure Record:		Estimated Research estimates (Research
Oak Bluffs		1925	ducture Record.	_	Estimated Reconstruction/Repair Cost: \$2,074,116.00
	levation: FIRM Map				Text, digital from the
1900		V9	22		
Feet Feet M	NAVD 88	Feet	t NGVD		
rimary Type:	Primary Material:	Primary Heig			
Bulkhead/ Seawali	Concrete	5 to 10 Feet			
econdary Type:	Secondary Material				
Revetment	Stone	Under 5 Fee	et		
ructure Summar			- 363		
attered and dum	nped. The stones are 3 feet	e toe. The wall has me by 2 feet by 1 foot on	oderate cracking	and spalling and mind	or scour at the toe. The riprap is
		5) 1 100c 5)	average. Definit	a are sudetures is a re	ad and bundings.
Condition	С		Priority	V	
ating	Fair		Rating	Immediate	/ Highest Priority
evel of Action	Moderate		Action		or Immediate Action Due to Public
Description	Structure is sound but may deterioration, section loss, undermining, and/or scour to withstand major coastal moderate damage. Actions structure to provide full procoastal storm and for exte structure. Moderate wind landform exists. Landform to fully protect shoreline distorm. Actions taken to promaterial for full protection in	cracking, spalling, cracking, spalling, structure adequate storm with little to staken to reinforce otection from major nding life of or wave damage to may not be sufficient uring a major coastal ovide addition	Descript	ion Critical Insh Potential fo High Densit of structure stabilization loss of prop	Welfare Issues nore Structures Present with r Infrastructure Damage and/or ty Residential Dwellings Condition may warrant emergency n as failure may result in potential perty and/or life. (>10 dwellings 100 feet of shoreline)
ructure Image 3-010-000-001-1		Structure Docur MA-DCR MA-DCR MA-DCR	May 1925 May 1934 December 1	Proposed Concrete Proposed Concrete Proposed Riprap	053-010-000-001-100-DCR1A 053-010-000-001-100-DCR1B 053-010-000-001-100-DCR1C
		MA-DCR	March 1946	Proposed Riprap	053-010-000-001-100-DCR1D
		MA-DCR	January 196	Proposed Shore	053-010-000-001-100-DCR1E
		MA-DCR	August 1987	Proposed Shore	053-010-000-001-100-DCR1F

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-010-000-001-200

Property Owner:		Location:		Date:
Local		Seaview Avenu	ie	10/2/2007
Presumed Structure	e Owner:	Based On Com	ment:	,
Local				
Owner Name:		Earliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
Oak Bluffs		Unkown		\$105,600.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation	on:	
400	V9	2	2	
Feet Feet N	IAVD 88	Feet NGV	D	
Primary Type:	Primary Material:	Primary Height:		
Coastal Beach	Sand	Under 5 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		
Structure Summary	<i>t</i> :			
Condition Rating Level of Action Description	Poor Major Structure exhibits advanced level deterioration, section loss, cracki undermining, and/or scour. Structure during a major coastal stored until repairs/reconstruction can be inititaken to reconstruct structure to reapacity to resist a major coastal Landform eroded, stability threate Landform not adequate to provide during major coastal storm. Actio recreate landform to adequate limprotection from a major coastal st	ng, spalling, cture has and possible rm. Structure sated. Actions regain full storm. ened. e protection ns taken to nits for full	Priority Rating Action Description	Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 053-010-000-001-2		ucture Document	s:	

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-010-000-001-300

FIRM Map Zone: VS Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for the construction of the constr	Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	tion: 22 SVD	Estimated Reconstruction/Repair Cost \$66,000.00 sible scour. There is minor stone movement.
FIRM Map Zone: V9 Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	Earliest Struct 1937 FIRM Map Eleva Feet NG Primary Height: Under 5 Feet Secondary Heigh eet by 1 foot on ave	tion: 22 GVD at: Priority Rating	\$66,000.00 sible scour. There is minor stone movement.
Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	FIRM Map Eleva Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	tion: 22 SVD nt: rage. There is no visit of the priority Rating	\$66,000.00 sible scour. There is minor stone movement.
Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	FIRM Map Eleva Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	tion: 22 SVD nt: rage. There is no visit of the priority Rating	\$66,000.00 sible scour. There is minor stone movement.
Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	FIRM Map Eleva Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	tion: 22 SVD nt: rage. There is no visit of the priority Rating	\$66,000.00 sible scour. There is minor stone movement.
Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	22 GVD nt: rage. There is no vis Priority Rating	i None
Primary Material: Stone Secondary Material: nes that are 3 feet by 2 for	Feet NG Primary Height: Under 5 Feet Secondary Height eet by 1 foot on ave	rage. There is no vis	i None
Stone Secondary Material: nes that are 3 feet by 2 for	Primary Height: Under 5 Feet Secondary Heigh eet by 1 foot on ave	rage. There is no vis	i None
Stone Secondary Material: nes that are 3 feet by 2 for	Under 5 Feet Secondary Heigh eet by 1 foot on ave	rage. There is no vis Priority Rating	i None
Secondary Material: nes that are 3 feet by 2 for	Secondary Heigh	rage. There is no vis Priority Rating	i None
nes that are 3 feet by 2 fo	eet by 1 foot on ave	rage. There is no vis Priority Rating	i None
		Priority Rating	i None
		Priority Rating	i None
		Priority Rating	i None
is, superficial in nature. It orm is present. Structure to provide protection fistorm with no damage. And / limit future deterioral ructure.	Minor erosion re / landform rom a major Actions taken	Description	Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
			osed Stone Jetty 053-010-000-001-300-DCR3A
MA	A-DCR M	larch 1946 Prop	osed Riprap 053-010-000-001-300-DCR3B
Ā	JPG MA	JPG MA-DCR J	

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-010-000-135-100

Property Owner:		Location:		Date	
Local		Seaview Aver	nue		10/2/2007
Presumed Structur	re Owner:	Based On Cor	mment:	,	
Local					
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstr	ruction/Repair Cost:
Oak Bluffs		Unkown			\$0.00
	Elevation: FIRM Map Zone:	FIRM Map Elevat			
300	V9	J.	22		
	NAVD 88	Feet NG	VD		T
Primary Type: Revetment	Primary Material:	Primary Height:			A SERVICE OF THE PERSON NAMED IN
	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
	9	1			
Structure Summar Placed stone revel on average.	y : tment with 1 on 1 slope on inshore a	and outshore. The	crest is one stone v	width wide. The stones are 4 feet	by 3 feet by 2 feet
Condition	A		Priority	l Name	
Rating	Excellent None		Rating	None	-4:
Level of Action Description	Like new condition. Structure expe	acted to	Action Description	Long Term Planning Consider No Inshore Structures or Resident	
	withstand major coastal storm wit Stable landform (beach, dune or t Adequate system exists to provide from major coastal storm.	oank).		Units Present	
Structure Imag		ucture Documer	nts:		
	100-PHO1A.JPG				
53-010-000-135-1	100-PHO1A.JPG				
	100-PHO1A.JPG				
	100-PHO1A.JPG				

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-010-000-135-200

Property Owner:			Location	n:		Date:
Local			Seaview	Avenue		10/1/2007
Presumed Structu	re Owner	:	Based On	Comment:		
Local	0.750	<u> </u>				
Owner Name:			ji Earlinet C	trauchuro Docerda	_	Cabinacted December 111 - 12
Oak Bluffs			1925	tructure Record:	- F	stimated Reconstruction/Repair Cost: \$210,672.00
						Ψ-10/07 E100
	Elevation:	FIRM Map Zo				
1400		1	V9	22		
Feet Feet I	NAVD 88		Feet	NGVD		
Primary Type:		Primary Material:	Primary Heig	A 4. 1 **** *		
Bulkhead/ Seawal	1	Concrete	Under 5 Fee	t		A TOWN
Secondary Type:	_	Secondary Material:	Secondary H		A CONTRACTOR OF THE PARTY OF TH	
Revetment		Stone	Under 5 Fee	t	5	
Structure Summar		<u> </u>				The concrete wall is 4 feet high by 2
Condition Rating Level of Action Description	probler to land adequa coasta to prev	re observed to exhibit ns, superficial in natur form is present. Stru ate to provide protectic I storm with no damag ent / limit future deteri tructure.	e. Minor erosion cture / landform on from a major e. Actions taken	Priority Rating Action Descripti	fon High Value II for Infrastructure Density Resi	Next Project Construction Listing nshore Structures with Potential sture Damage and/or Moderate dential Dwellings (1-10 dwellings 00 feet of shoreline)
	es:		Structure Docur	ments:		
tructure Imag			MA DOD	May 1925	Proposed Concrete	053-010-000-135-200-DCR2A
3-010-000-135-2			MA-DCR	Way 1323		
3-010-000-135-2		2B.JPG	MA-DCR	February 19	Proposed Shore	053-010-000-135-200-DCR2B
3-010-000-135-2		2B.JPG	MA-DCR MA-DCR		Proposed Shore Proposed Riprap	053-010-000-135-200-DCR2B 053-010-000-135-200-DCR2C
3-010-000-135-2		2B.JPG	MA-DCR MA-DCR MA-DCR	February 19 March 1946 January 196		*
ructure Imag 33-010-000-135-2 33-010-000-135-2		2B.JPG	MA-DCR MA-DCR	February 19 March 1946	Proposed Riprap	053-010-000-135-200-DCR2C

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-010-000-135-300

Property Owner:		Location:			Date:
Local		Seaview Aven	ue		10/2/2007
Presumed Structure	e Owner:	Based On Com	nment:		,
Local					
Owner Name:		Earliest Struct	ure Record:	Estimated	Reconstruction/Repair Cost:
Oak Bluffs		Unkown	<u> </u>		\$16,500.00
Length: Top El	evation: FIRM Map Zone:	FIRM Map Elevati	on:		
125	V9		22		
Feet Feet N	AVD 88	Feet NGV	/D		
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	Under 5 Feet		1000	
Secondary Type:	Secondary Material:	Secondary Height	- 	\$ (
Structure Summary		1			
	n. There is moderate stone moven	nent. The groins ex	tend past mean lo	w water. There is no visil	ble scour.
		_			
: Condition	В		Priority	1	
Rating	Good		Rating	None	
Level of Action	Minor		Action	Long Term Planning (Considerations
	Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Description	No Inshore Structures Units Present	or Residential Dwelling
Structure Images		cture Document	ts:		
053-010-000-135-30	u-rausa.jpg				
		•			

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-010-000-135-400

Property Owner:		Location:			Date:	
Local		Seaview Avenue				10/2/2007
Presumed Structur	re Owner:	Based On Comment	:		•	
Local						
Owner Name: Oak Bluffs		Earliest Structure Re Unkown	ecord:	Estimated R	econstruction/	Repair Cost: \$26,400.00
200	NAVD 88 Primary Material: Stone	FIRM Map Elevation: 22 Feet NGVD Primary Height: Under 5 Feet				
Secondary Type:	Secondary Material:	Secondary Height:	L.			
Structure Summan						
Dumped stone gro	in. There is moderate stone mover	nent. The groins extend	oast mean low wa	ater. There is no visible	e scour.	
Condition Rating Level of Action Description	Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration	minor Desinor erosion / landform m a major ctions taken	ion L ecription N	None Long Term Planning Co No Inshore Structures of Units Present		Dwelling
Structure Image 053-010-000-135-4		ucture Documents:				

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-032-000-001-100

State Joseph Sylvia State Beach 10/2/2 Presumed Structure Owner: Based On Comment: State Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Co	Property Owner:			Location:			Date:
Structure Images: Structure Ima	State			Joseph Sylvia	State Beach		10/2/2007
Owner Name: Earliest Structure Record: [MA-DCR] Structure Record: [MA-	Presumed Structur	e Owner:		Based On Com	nment:		,
MA-DCR Signature Secondary Secondar	State				· · · · · · · · · · · · · · · · · · ·		
MA-DCR Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 6200 V14 I14 Feet NGVD Freet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Coastal Beach Sand I10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Action Minor Action Superficial in nature. Minor erosion to landform is present. Structure Inaform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: USACE March 1954 Proposed Stone 053-032-000-001-100-COE1A	Owner Name:			Earliest Struct	ure Record:	Fetimate	Reconstruction/Penair Costs
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: 10 to 15 Feet Secondary Height: Secondary Height: Secondary Height: Secondary Height: Structure Summary : Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B	MA-DCR			<u> </u>	are Record.	Lisumated	\$1,391,280.00
Feet Feet NAVD 88 Feet NGVD Primary Type:		levation:					
Primary Type: Primary Material: Primary Height: Sand 10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B	į,		V14	J			
Coastal Beach Secondary Type: Secondary Material: Secondary Height: Structure Summary: Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Rating Minor Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: [USACE March 1954 Proposed Stone 053-032-000-001-100-COE1A Proposed Stone 053-032-000-00	Feet Feet N	IAVD 88		Feet NGV	'D		
Secondary Type: Secondary Material: Secondary Height: Structure Summary: Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Rating Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:		_	y Material:	The second section of the second section of the second section of the second section s	_		
Structure Summary: Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: USACE March 1954 Proposed Stone 053-032-000-001-100-PHO1A.JPG B Rating None Action Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present Units Present	Coastal Beach	Sand		10 to 15 Feet			
Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Images: Structure Documents: USACE March 1954 Proposed Stone Oscious approximately 1 on 20. Rating None Action Long Term Planning Considerations Description No Inshore Structures or Residential Dwelling Units Present Proposed Stone Oscious approximately 1 on 20.	Secondary Type:	Second	ary Material:	Secondary Height	<u>:_</u>		
Sandy beach with dunes behind. The beach is uniformly graded and filled. The slope is approximately 1 on 20. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Images: Structure Documents: USACE March 1954 Proposed Stone Oscious approximately 1 on 20. Rating None Action Long Term Planning Considerations Description No Inshore Structures or Residential Dwelling Units Present Proposed Stone Oscious approximately 1 on 20.				1			
Condition B Rating Good Rating None Level of Action Minor Action Long Term Planning Considerations Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: Proposed Stone Dosa-032-000-001-100-COE1A Proposed Stone Dosa-032-000-001-100-COE1						The state of the s	11.8
Rating Good Rating None Level of Action Minor Action Long Term Planning Considerations Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: USACE March 1954 Proposed Stone 053-032-000-001-100-COE1A	Sandy beach with	dunes behind. 7	The beach is uniform	nly graded and filled	I. The slope is app	proximately 1 on 20.	
Rating Good Rating None Level of Action Minor Action Long Term Planning Considerations Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: USACE March 1954 Proposed Stone 053-032-000-001-100-COE1A							
Rating Good Rating Minor Action Units Present Long Term Planning Considerations Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: March 1954 Proposed Stone 1053-032-000-001-100-COE1A	Condition	В			Priority	1	
Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Documents: Structure Documents: Structure Documents: Structure Documents: Structure Documents Structure Documen	Rating	Good			-	None	
problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. **Tructure Images:** Structure Documents: Structure Documents: Option Optio	Level of Action	Minor				Long Term Planning	Considerations
053-032-000-001-100-PHO1A.JPG	Description	to landform is padequate to processal storm vito prevent / lim	erficial in nature. Min present. Structure a povide protection from vith no damage. Ac it future deterioratio	nor erosion / landform m a major ctions taken	Description .	Units Present	s of Residential Dwelling
53-032-000-001-100-PHO1A.JPG USACE March 1954 Proposed Stone 053-032-000-001-100-COE1A							
Interior Tool Interior Document Documen						occid Store	223 000 004 400 00544
October 9, 1 Plans Accompanying 053-032-000-001-100-LIC1A	00 002 000 001 10	00-1 110 17.01 0	1				
			1	joo	(Sec. 1)	Treesingarying 1000-	322-000-001-100-EIC IA
				•			

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-032-000-001-200

Property Owner:		Location:		Date:
Local		Joseph Sylvi	a State Park	10/2/2007
Presumed Structure	e Owner:	Based On Co	mment:	•
State				A CONTRACT OF THE CONTRACT OF
Owner Name:		Earliest Struc	cture Record:	Estimated Reconstruction/Repair Cost:
Oak Bluffs		1977		\$390,325.00
Length: Top El	levation: FIRM Map Zon	or EIDM Mon Flour		
325		e: FIRM Map Eleva	14	
Feet Feet N	IAVD 88	i Feet NO	GVD	
Primary Type:	Primary Material:	Primary Height:		
Groin/ Jetty	Stone	5 to 10 Feet	· · · · · ·	
Secondary Type:	Secondary Material:	Secondary Heigh	nt:	
			_	
Structure Summary				ATTON (2015)
The groin extends	out to mean low water.	Freet by 2 reet by 2 r	cci on average. Mil	nor to mild stone movement. There is minor scour.
Condition	С		Priority	1
Rating	Fair		Rating	None
Level of Action Description	Moderate Structure is sound but may ext	19-14 t	Action	Long Term Planning Considerations No Inshore Structures or Residential Dwelling
	deterioration, section loss, cracundermining, and/or scour. Str to withstand major coastal stor moderate damage. Actions tak structure to provide full protect coastal storm and for extending structure. Moderate wind or will landform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and structure.	ucture adequate m with little to en to reinforce ion from major g life of ave damage to not be sufficient a major coastal e addition	Description	Units Present
Structure Image		tructure Docume		
053-032-000-001-20	00-PHO2A.JPG	MA-DCR J	une 1977 Prop	oosed Harbor 053-032-000-001-200-DCR2A

Structure Assessment Form

Town: Oak Bluffs

Structure ID: 053-032-000-001-300

Property Owner:		Location:		D	ate:
Local		Joseph Sylvia	State Park		10/2/2007
Presumed Structur	re Owner:	Based On Cor	nment:	,	
State			and the second		
Owner Name:		Earliest Struct	ure Record:	Estimated Reco	onstruction/Repair Cost:
Oak Bluffs		1977			\$0.00
Length: Top E	Elevation: FIRM Map Zon	e: FIRM Map Elevat	ion:		
100	i i	14	14		THE RESERVE
Feet Feet I	NAVD 88	Feet NG	VD		-
Primary Type: Groin/ Jetty	Primary Material:	Primary Height:		EXALIBERT XLOUR	
	Wood	Under 5 Feet			
Secondary Type:	Secondary Material:	Secondary Height	<u>t:</u>		李约
ı Structure Summan		ı		GEOMETRICAL STREET	
	groi ns appear to be newly constr	ructed. There is no vis	ible scour. The an	oins extend out to mean low w	ater.
Condition	Α		Priority	I	
Rating	Excellent		Rating	None	
Level of Action	None		Action	Long Term Planning Cons	
Description	Like new condition. Structure e withstand major coastal storm	expected to without damage.	Description	No Inshore Structures or F Units Present	Residential Dwelling
	Stable landform (beach, dune Adequate system exists to pro-	or bank).		Ormo i rodom	
	from major coastal storm.	vide protection			
Structure Image	es: S	Structure Documen	ts:		
053-032-000-001-3		//A-DCR Ju	ne 1977 Prop	oosed Harbor 053-032-0	00-001-300-DCR3A
53-032-000-001-3	00-PHO3B.JPG				

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-032-000-001-400

Property Owner:		Location:		Date:	
State		Edgartown-O	ak Bluffs Road		10/2/2007
Presumed Structur	e Owner:	Based On Cor	nment:	,	
State			<u>_</u>		
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstru	ction/Repair Cost
MA-DCR		Unkown			\$96,096.00
	levation: FIRM Map Zone:	FIRM Map Elevat	ion:		
800	V14		14		
Feet Feet N	IAVD 88	Feet NG	VD		
Primary Type:	Primary Material:	Primary Height:		ACAT CARGANIA	CELE I
Revetment	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
Structure Summary	<i>t</i> :				
Condition Rating	ment with stones 3 feet by 2 feet by r. Protects the shoreline of the inlet B	t to Sengek ontacke	t Pond. Priority Rating	l None	
Level of Action	Minor		Action	Long Term Planning Considerate	tions
Description	Structure observed to exhibit very problems, superficial in nature. Mit to landform is present. Structure adequate to provide protection fror coastal storm with no damage. Act to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Description	No Inshore Structures or Reside Units Present	ential Dwelling
Structure Image 053-032-000-001-4 053-032-000-001-4	00-PHO4A.JPG	cture Documen	ots:		

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-032-000-001-500

		Location:		Date:	
tate		Inlet to Sen	gekontacket Pond	and the same and t	10/2/2007
resumed Structur	e Owner:	Based On C	omment:	,	
tate					
wner Name:		Earliest Stru	cture Record:	Estimated Reconstruction/Rep	air Cost
1A-DCR		1938	1		9,039.00
1300.00-	Elevation: FIRM Map 2	Cone: FIRM Map Elev	ation:		
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3-032-000-001-5	00-PHO5B.JPG				

Structure Assessment Form

Town: Oak Bluffs
Structure ID: 053-032-000-002-100

Beach Road Bridge 10/2/	Presumed Structure Owner: Docal		Date:			Location:			vner:	Property Ow
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Cowner Name: Coak Bluffs Earliest Structure Record: 1961 Estimated Reconstruction/Repair C \$60,060 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: Feet NGVD Feet NGVD Freet NGVD Frimary Type: Primary Material: Stone Stone Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Foet NGVD Feet NGVD Freet NGVD Frimary Height: Secondary Type: Secondary Height: Secondary Height: Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Foet NGVD Feet NGVD Feet NGVD Frimary Height: Secondary Height: Firm Map Elevation: Alia In Primary Height: For 10 Feet Secondary Height: Firm Map Elevation: Firm Map Ele	Owner Name: Coak Bluffs Earliest Structure Record: Estimated Reconstruction/Rep 1961 Secondary Type: Primary Material: Secondary Type: Primary Material: Secondary Height: Secondary Type: Placed stone revetment with stones 3 feet by 2 feet by 2 feet on average set at a 1 on 2 slope. Behind is a small parking area. Above is bridge for the inlet to the Sengekontacket Pond. Condition B Rating Good Rating Good Rating Good Rating Action Long Term Planning Considerations No Inshore Structures or Residential Dwe Units Present		•		nt:	Based On Comme		ner:	tructure Owne	Presumed St
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Structure Assessment Form

Structure ID: 053-032-000-002-200

Town: Oak Bluffs

	:		Location:			Date:	
Local	· · · · · · · · · · · · · · · · · · ·		Beach Road B	ridge			10/2/2007
Presumed Struc	ture Owner:		Based On Com	ment:		U	
Local							
Owner Name:			i Earliest Structi	ire Record:	Ect	imated Reconstruction/Rep	air Coct
Oak Bluffs		,	1961	are Record.			0,030.00
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250	J Elevation.	A12		10			
Feet Fee	et NAVD 88	1	Feet NGV	'D			
rimary Type:	Prim	ary Material:	Primary Height:			Age and the second seco	
Revetment	Stor		5 to 10 Feet				
econdary Type	: Secor	ndary Material:	Secondary Height	:		Pitch .	
			, , , ,			Co. Lo	
tructure Summ	arv :						
Rating	Good			Rating			
Level of Actio	Minor Structure ob problems, su to landform i adequate to coastal storr	served to exhibit very iperficial in nature. Mi s present. Structure provide protection fro n with no damage. An imit future deterioration ire.	nor erosion / landform m a major xtions taken	Action Description		nning Considerations uctures or Residential Dwo	elling
Rating Level of Action Description ructure Ima	Minor Structure ob problems, su to landform i adequate to coastal storm to prevent / I life of structure.	perficial in nature. Mis present. Structure provide protection fron with no damage. An imit future deteriorations.	nor erosion / landform m a major ctions taken on and extend	Action Description	No Inshore Str Units Present	uctures or Residential Dwe	
Level of Action Description	Minor Structure ob problems, su to landform i adequate to coastal storr to prevent / I life of structu	sperficial in nature. Mis present. Structure provide protection from with no damage. An imit future deterioration in the second streetholder. Structure deterioration in the second streetholder.	nor erosion / landform m a major ctions taken n and extend cture Document CE Ap	Action Description	No Inshore Str Units Present	uctures or Residential Dwe	DE2A
Level of Action Description	Minor Structure ob problems, su to landform i adequate to coastal storm to prevent / I life of structure.	perficial in nature. Mis present. Structure provide protection fron with no damage. An imit future deteriorations.	nor erosion / landform m a major ctions taken on and extend ccture Document CE Ap CE Ap	Action Description ts: ril 1961	No Inshore Str Units Present	uctures or Residential Dwe	DE2A DE2B

Section IV - Oak Bluffs

Part C

Structure Photographs



SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Boume Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: OAK BLUFFS

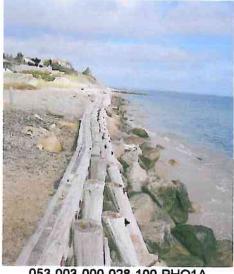
Structure Condition Photo at Time of Survey Description Structure Location Structure Localion Structure Location Location _ _ --_ DIGITAL IMAGE Title October 2007 Date Municipality Oak Bluffs Consulting
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TOWN: OAK BLUFFS
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: OCTOBER 2007

053-010-000-135-200	053-010-000-135-200 053-010-000-135-200-PHO2B.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-010-000-135-300	053-010-000-135-300 053-010-000-135-300-PHO3A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-010-000-135-400	053-010-000-135-400 053-010-000-135-400-PHO1A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-100	053-032-000-001-100 053-032-000-001-100-PHO1A.JPG	Boume Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-200	053-032-000-001-200 053-032-000-001-200-PHO2A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-300	053-032-000-001-300 053-032-000-001-300-PHO3A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-300	053-032-000-001-300 053-032-000-001-300-PHO3B.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-400	053-032-000-001-400 053-032-000-001-400-PHO4A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-400	053-032-000-001-400 053-032-000-001-400-PHO4B.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-500	053-032-000-001-500 053-032-000-001-500-PHO5A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-001-500	053-032-000-001-500 053-032-000-001-500-PHD5B.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-002-100	053-032-000-002-100 053-032-000-002-100-PHO1A.JPG	Bourne Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
053-032-000-002-200	053-032-000-002-200 053-032-000-002-200-PHO2A.JPG	Boume Consulting Engineering	Oak Bluffs	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey



053-002-000-003-100-PHO1A



053-003-000-028-100-PHO1A



053-006-000-017-100-PHO1A



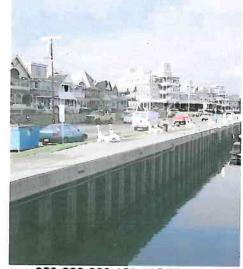
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053-006-000-017-300-PHO3A



053-006-000-017-400-PHO4A



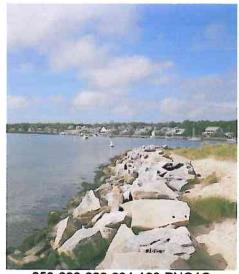
053-008-000-139-100-PHO1A



053-008-000-294-100-PHO1A



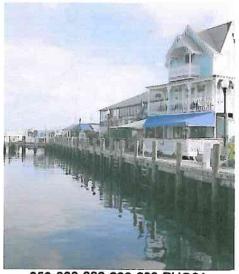
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053-008-000-294-100-PHO1C



053-008-000-296-100-PHO1A



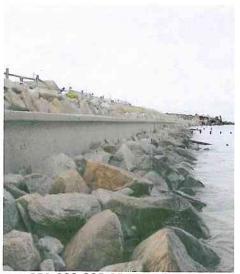
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053-009-000-036-100-PHO1A



053-009-000-037-100-PHO1A



053-009-000-058-100-PHO1A



053-009-000-058-200-PHO2A

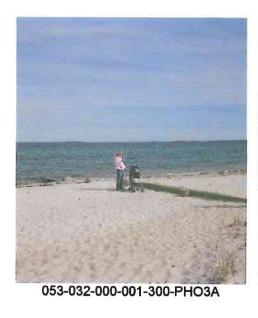


053-009-000-058-300-PHO3A



053-010-000-001-100-PHO1A







053-032-000-001-300-PHO3B



053-032-000-001-400-PHO4A



053-032-000-001-400-PHO4B



053-032-000-001-500-PHO5A



053-032-000-001-500-PHO5B



053-032-000-002-100-PHO1A



053-032-000-002-200-PHO2A

Section IV - Oak Bluffs

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Oak Bluffs.xls

TOWN: OAK BLUFFS SOURCE: Town of Oak Bluffs.xls LOGATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

	Description		
	Location		
-	Sheets		
	Title		
	Date		
	Municipality		
	Entity		
Contract	Drawing	Number	
	Document No		
	BCE Structure No		

TOWN: OAK BLUFFS
SOURCE: MA-DCR
LOCATION: MA-DCR BOSTON and HINGHAM, MA
DATE OF RESEARCH: JULY 2007

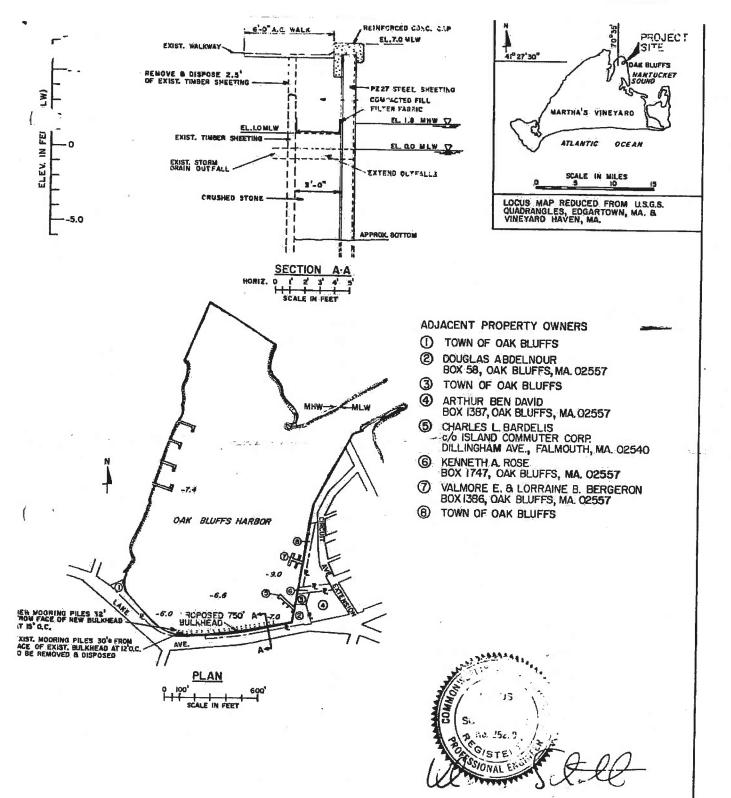
BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	THIS	Sheets	Location	Description	
053-008-000-139-100	053-008-000-139-100-DCR1A	1418	MA-DCR	Oak Bluffs	July 1954	Proposed Bulkhead and Dredging - Oak Bluffs Harbor - Oak Bluffe, MA - DPW of MA Division of Waterways	4		Bulkhead	
053-008-000-138-100	053-008-000-139-100-DCR1B	1945	MA-DCR	Oak Bluffs	September 1958	Proposed Harbor Improvements - Timber Bulkhead and Excavation Oak Bluffs Harbor - Oak Bluffs - DPW of MA Division of Waterways	5	Lake Avenue	Buikhead	
053-008-000-296-100	053-008-000-296-100-DCR1A	2692	MA-DCR	Oak Bluffs	February 1970	Steel Sheet Piling Bulkhead - DPW of MA Division of Waterways	8	Circuit Avenue	Bulkhead	
053-008-000-296-200	053-008-000-296-200-DCR2A	2692	MA-DCR	Oak Bluffs	February 1970	Steel Sheet Piling Bulkhead - DPW of MA Division of Waterways	8	Circuit Avenue	Bulkhead	
053-009-000-036-100	053-009-000-036-100-DCR1A	116	MA-DCR	Oak Bluffs	May 1925	Proposed Concrete Seawl and Timber Jetties - Oak Bluffs - Marthas Vineyard Island	-	Seavlew Avenue	Concrete Seawall	
053-009-000-036-100	053-009-000-036-100-DCR1B	882	MA-DCR	Oak Bluffe	March 1946	Proposed Riprap Shore Protection - Seavlew Avenue - Oak Bluffs - DPW of MA Division of Waterways	-	Seaview Avenue	Riprap	
053-008-000-038-100	053-009-000-036-100-DCR1C	2484	MA-DCR	Oak Bluffs	January 1866	Proposed Shore Protection - Concrete Seawall and Rock Fill - Seaview Avenue - Oak Bluffs - DPW of MA Division of Waterways	-	Seavlew Avenue	Concrete Seawall and Rock Fill	
053-009-000-036-100	053-009-000-036-100-DCR1D	3131	MA-DCR	Oak Bluffe	August 1987	Proposed Shore Protection - Nantucket Sound - Oak Bluffs - DPW of MA Division of Waterways	2	Seaview Avenue	Seawall and Stone Mound	
053-009-000-058-100	053-009-000-058-100-DCR1A	646	MA-DCR	Oak Bluffs	March 1940	Proposed Repairs to Concrete Seawall at Oak Bluffs - North of Steamboat Wharf - DPW of MA Division of Waterways	-	North of Steamboat Wharf	Seawall Repairs	
053-009-000-058-300	053-009-000-058-300-DCR3A	1177	MA-DCR	Oak Bluffs	September 1851	Proposed Harbor Improvements - Oak Bluffs - Oak Bluffs Bulkhead and Timber Platform - DPW of MA Division of Waterways	r0	Saco Avenue	Bulkhead	
053-010-000-001-100	053-010-000-001-100-DCR1A	116	MA-DCR	Oak Bluffs	May 1925	Proposed Concrete Seawall and Timber Jetties - Oak Bluffs - Marthes Vineyand Island	-	Seaview Avenue	Concrete Seawall	
053-010-000-001-100	053-010-000-001-100-DCR1B	401	MA-DCR	Oak Bluffs	May 1934	Proposed Concrete Seawall - Oak Bluffs - Marthas Vineyard Island - DPW of MA Division of Waterways	-	Seaview Avenue at Ocean Avenue and Narragansett Street	Seawall	
053-010-000-001-100	053-010-000-001-100-DCR1C	870	MA-DCR	Oak Bluffs	December 1945	Proposed Riprap Protection for Seawalls - Oak Bluffs - DPW of MA Division of Waterways	1	Narraganset Avenue	Rlprap	
053-010-000-001-100	053-010-000-001-100-DCR1D	882	MA-DCR	Oak Bluffs	March 1946	Proposed Riprap Shore Protection - Seaview Avenus - Oak Bluffs - DPW of MA Division of Waterways	-	Seavlew Avenue	Rlprap	
053-010-000-001-100	053-010-000-001-100-DCR1E	2494	MA-DCR	Oak Bluffs	January 1966	Proposed Shore Protection - Concrete Seawall and Rock Fill - Sea View Avenue - Oak Bluffs - DPW of MA Division of Waterways	+	Seaview Avenue	Concrete Seawall and Rock Fill	
053-010-000-001-100	053-010-000-001-100-DCR1F	3131	MA-DCR	Oak Bluffs	August 1987	Proposed Shore Protection - Nantucket Sound - Oak Bluffs - DPW of MA Division of Waterways	8	Seaview Avenue	Seawall and Stone Mounds	
053-010-000-001-300	053-010-000-001-300-DCR3A	502	MA-DCR	Oak Bluffs	July 1937	Proposed Stone Jetty Oak Bluffs - DPW of MA Division of Waterways	-	Seaview Avenue	Jetty	
053-010-000-001-300	053-010-000-001-300-DCR3B	882	MA-DCR	Oak Bluffs	March 1946	Proposed Riprap Shore Protection - Seaview Avenue - Oak Bluffs - DPW of MA Division of Waterways	-	Seaview Avenue	Riprap	
053-010-000-135-200	053-010-000-135-200-DCR2A	116	MA-DCR	Oak Bluffe	May 1925	Proposed Concrete Seawall and Timber Jettles - Oak Bluffs - Marthas Vinevard Island	-	Seavlew Avenue	Concrete Seawall	
053-010-000-135-200	053-010-000-135-200-DCR2B	550	MA-DCR	Oak Bluffs	February 1938	Proposed Shore Protection - Oak Bluffs Shore Southerly of Town Wharf - DPW of MA Division of Waterways	-	Seavlew Avenue Between Nantucket Avenue and Canacut Avenue	Riprap	
053-010-000-135-200	053-010-000-135-200-DCR2C	882	MA-DCR	Oak Bluffe	March 1946	Proposed Riprap Shore Protection - Seaview Avenue - Oak Bluffe - DPW of MA Division of Waterways	-	Seavlew Avenue	Riprap	
053-010-000-135-200	053-010-000-135-200-DCR2D	2494	MA-DCR	Oak Bluffs	January 1966	Proposed Shore Protection - Concrete Seawall and Rock Fill - Seaview Avenue - Oak Bluffs - DPW of MA Division of Waterways	-	Seaview Avenue	Concrete Seewall and Rock Fill	
053-010-000-135-200	053-010-000-135-200-DCR2E	3131	MA-DCR	Oak Bluffs	August 1997	Proposed Shore Protection - Nantucket Sound - Oak Bluffe - DPW of MA Division of Weterways	2	Seavlew Avenue	Seawall and Stone Mound	
063-032-000-001-200	053-032-000-001-200-DCR2A	2868	MA-DCR	Oak Bluffe	June 1977	Proposed Harbor Improvements - Jetty Extension and Maintenance Dredging - Sengekontacket Pond and Nantucket Sound - Edgartown and Oak Bluffs - DPW of MA Division of Waterways	ю.	Joseph Slivia Beach Road	Jetty	
053-032-000-001-300	053-032-000-001-300-DCR3A	2868	MA-DCR	Oak Bluffs	June 1977	Proposed Harbor Improvements - jeitly Extension and Maintenance Dredging - Sangakontacket Pond and Nantucket Sound - Edgartown and Oak Bluffs - DPW of MA Division of Waterways	9	Joseph Silvia Beach Road	Jetty	

TOWN: OAK BLUFFS SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

053-032-000-001-500	053-032-000-001-500-DCR5A	555	MA-DCR	Oak Bluffs	October 1938	053-032-000-001-500 053-032-000-001-500-DCR5A 555 MA-DCR Oak Bluffs October 1938 Bluffs - DPW of MA Division of Watenways	-	Edgartown Road	Riprap
053-032-000-002-100	053-032-000-002-100 053-032-000-002-100-DCR1A	481	MA-DCR	MA-DCR Oek Bluffs	October 1936	Proposed Excavation Riprap Stone Jettles October 1936 Timber Bridge Reconstruction of State Highway - Sengekontlacket Pond - oak Bluffs - DPW	-	Edgartown Road	Riprap and Jeffles
053-032-000-002-200	053-032-000-002-200 053-032-000-002-200-DCR2A	481	MA-DCR	Oak Bluffs	October 1936	Proposed Excavation Riprap Stone Jetties Timber Bridge and Reconstruction of State Highway - Sengekontacket Pond - Oak Bluffe - DPW	-	Edgarfown Road	Riprap and Jettles

TOWN: OAK BLUFFS SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
053-008-000-139-100	053-008-000-139-100 053-008-000-139-100-LIC1A	1152	DEP	Oak Bluffs	October 19, 1984	Plans Accompanying Petition of Town of Oak Bluffs to Construct and Maintain Fill, Steel Sheet Pile Bulkhead, Timber Mooring Piles and Extension of Existing Storm Drainage Outfalls within Oak Bluffs harbor Along Lake Avenue	1	Lake Avenue	Steel Bulkhead
053-008-000-139-100	053-008-000-139-100 053-008-000-139-100-LIC1B	1326	DEP	Oak Bluffs	N/A	Plan Accompanying Petition of Town of Oak Blutfs, MA - To Construct and Maintain Steel Sheetbile Bulkhead Replacement, Timber Mooring Plies, Fill and Extension of Existing Storm Derinage Ouffils within Oak Bluffs Harbor Along Lake Avenue and Replacement.	1	Lake Avenue	Bulkhead
053-008-000-139-100	053-008-000-139-100 053-008-000-139-100-LIC1C	1152	DEP	Oak Bluffs	October 19, 1984	Plan Accompanying Petition of Town of Oak Bluffs, MA to Construct and Maintain Fill, Steel Sheet Pile Bulkhead Timber Mooring Piles and Extension of Existing Storm Drainage Outfails Within Oak Bluffs Harbor Along Lake Ave.	-	Lake Ave	Bulkhea <i>di</i> Seawall
053-008-000-296-100	053-008-000-296-100 053-008-000-296-100-LIC1A	11757	DEP	Oak Bluffs	May 21, 2007	Plans Accompanying Petition of Town of Oak Bluffs For Bulkhead Expansion at Town Landing, Oak Bluffs, Ma in Oak Bluffs Harbor	4	Lake Anthony	Bulkhead
053-008-000-296-200	053-008-000-296-200 053-008-000-296-200-LIC2A	3549	DEP	Oak Bluffs	November 30, 1993	Plan Accompanying Petition of Town of Oak Bluffs, MA - Wharf iovember 30, 1993 Replacement with Bulkhead and Fill Oak Bluffs Harbor, Oak Bluffs, MA	4	Circuit Avenue	Bulkhead
053-009-000-058-200	053-009-000-058-200 053-009-000-058-200-LIC2A	11757	DEP	Oak Bluffs	May 21, 2007	Plans Accompanying Petition of Town of Oak Bluffs for Bulkhead, Expansion at Own Landing, Oak Bluffs, MA in Oak Bluffs Little Harbor	4	Little Harbor	Bulkhead
053-010-000-135-200	053-010-000-135-200 053-010-000-135-200-LIC2A	1663	DEP	Oak Bluffs	August 20, 1987	Plen Accompanying Petition of Department of Environmental Management Division of Waterways to Construct a Stone Mound and Maintain Existing Seawalls and Revetment in Natrucket Sound	4	Nantucket Sound	Seawalls and Revetment
053-032-000-001-100	053-032-000-001-100 053-032-000-001-100-LIC1A	9009	DEP	Oak Bluffs	October 9, 1996	Plans Accompanying Petition of the MHD for Waterways License	В	Beach Road Inlets	Beach Renourishment



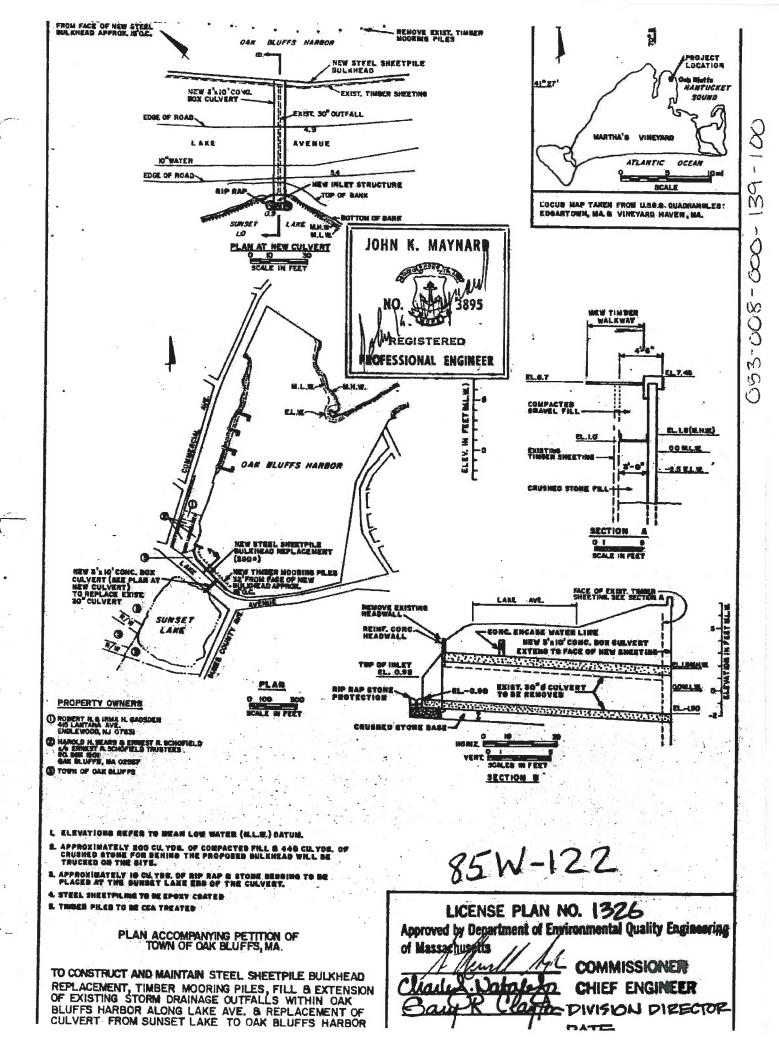
PLAN ACCOMPANYING PETITION OF TOWN OF OAK BLUFFS, MA.

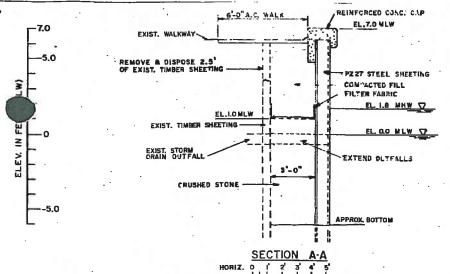
D CONSTRUCT AND MAINTAIN FILL, STEEL SHEET PILE JLKHEAD, TIMBER MOORING PILES & EXTENSION OF SISTING STORM DRAINAGE OUTFALLS WITHIN OAK BLUFFS ARBOR ALONG LAKE AVE.

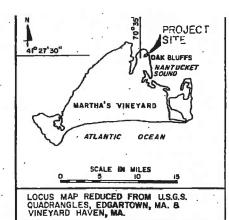
NOTES:

1. ELEVATIONS REFER TO MEAN LOW WATER (MLW) DATUM
2. APPROXIMATELY 400 CU. YDS. OF COMPACTED FILL 8. 880 CU. YDS. OF
CRUSHED STONE FOR BEHIND THE PROPOSED BULKHEAD WILL BE
TRUCKED ONTO THE SITE.

License PLAN NO. 1152 Manney by Department of Engineering Commission Commission Francisco Phonest Misoryllin COMMISSIONERALLY, John Zagar CHIEF ENGINEER LITHIUM TASKET DIVISION DIRECTOR.





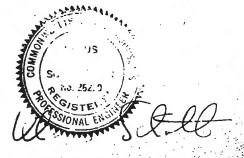


ADJACENT PROPERTY OWNERS

- TOWN OF OAK BLUFFS
- DOUGLAS ABDELNOUR BOX 58, OAK BLUFFS, MA. 02557
- TOWN OF OAK BLUFFS
- ARTHUR BEN DAVID BOX 1387, OAK BLUFFS, MA. 02557
- CHARLES L. BARDELIS c/o ISLAND COMMUTER CORP. DILLINGHAM AVE., FALMOUTH, MA. 02540
- KENNETH A. ROSE BOX 1747, OAK BLUFFS, MA. 02557
- VALMORE E. & LORRAINE B. BERGERON BOX 1386, OAK BLUFFS, MA. 02557
- B TOWN OF OAK BLUFFS

OAK BLUFFS HARBOR ROPOSED 750' FROM FACE OF NEW BULKHEAD AT 15 0.C. EXIST. MODRING PILES 30'8 FROM FACE OF EXIST. BULKHEAD AT 12'O.C TO BE REMOVED B DISPOSEO

SCALE IN FEET



NOTES:

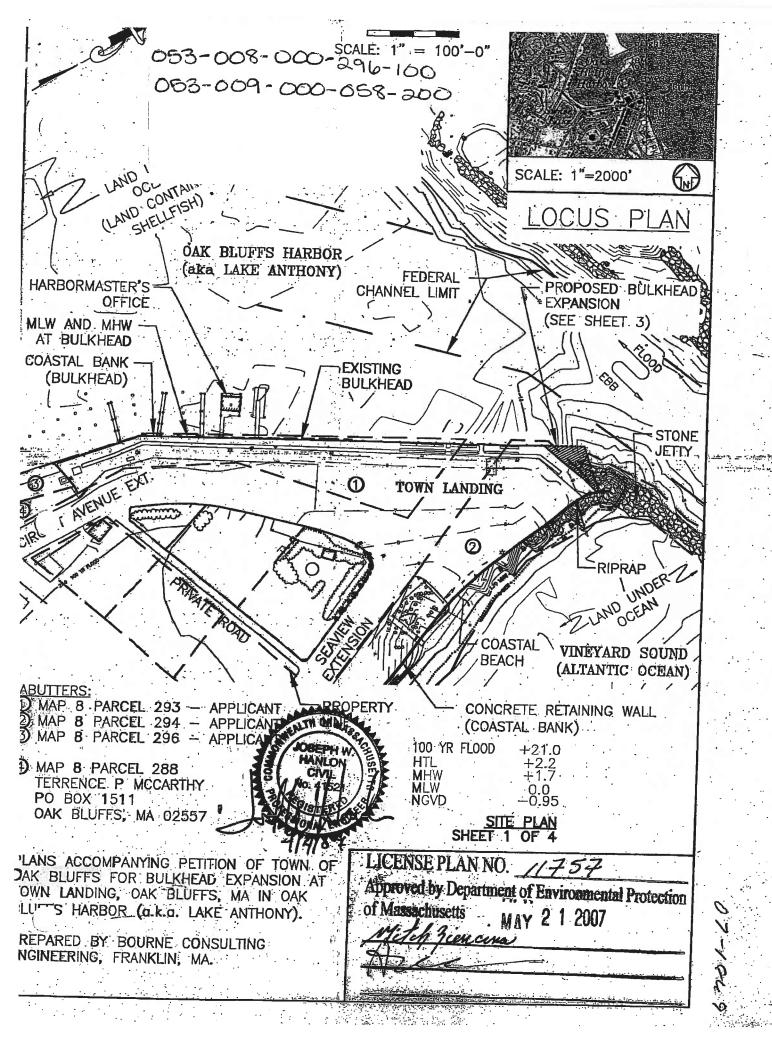
- I. ELEVATIONS REFER TO MEAN LOW WATER (MLW) DATUM
- 2.APPROXIMATELY 400 CU. YDS. OF COMPACTED FILL 8 880 CU. YDS. CRUSHED STONE FOR BEHIND THE PROPOSED BULKHEAD WILL BE TRUCKED ONTO THE SITE.

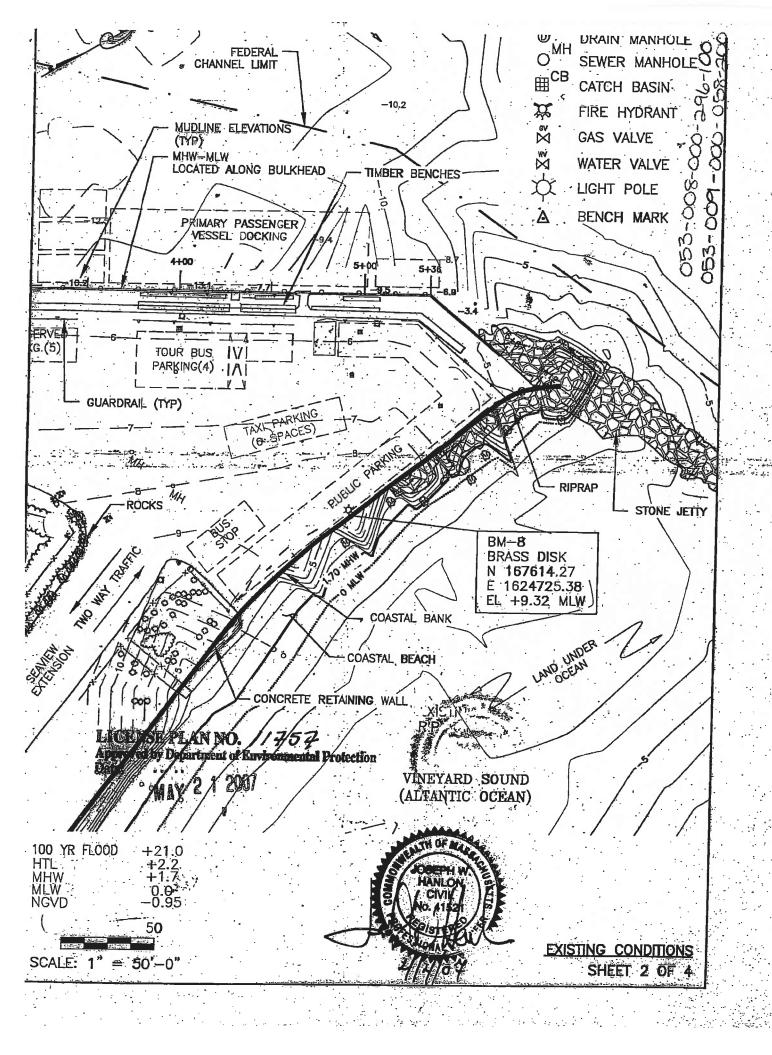
84w-026/

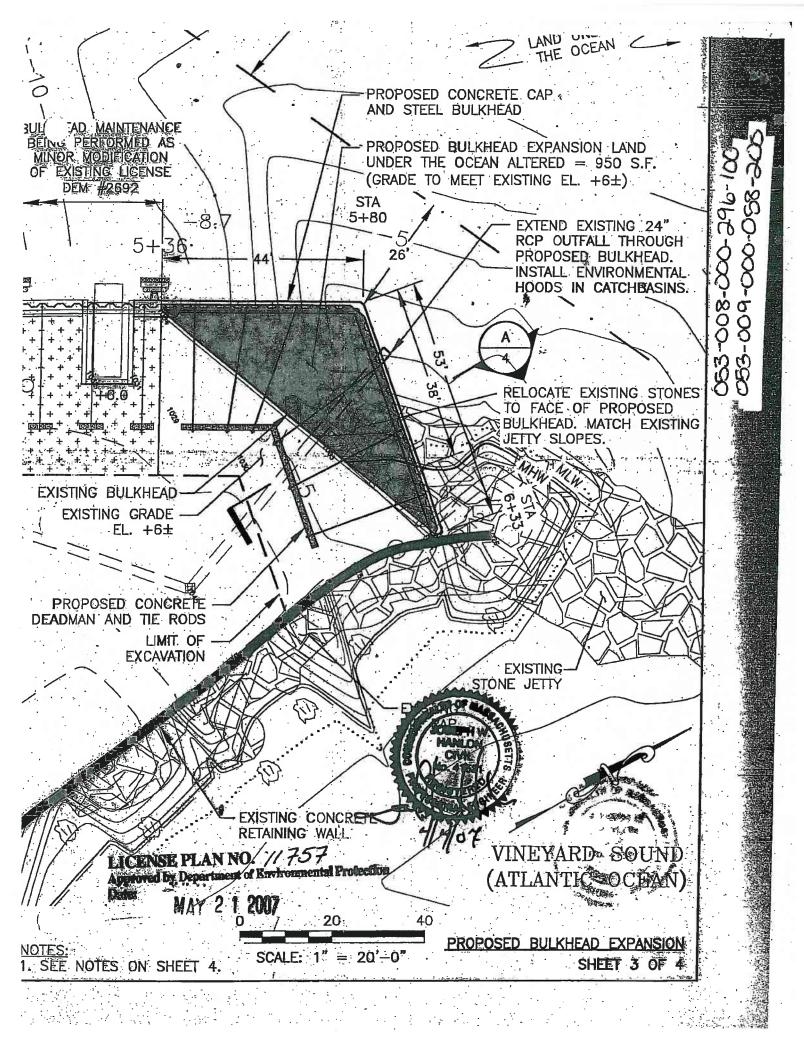
PLAN ACCOMPANYING PETITION OF TOWN OF OAK BLUFFS, MA.

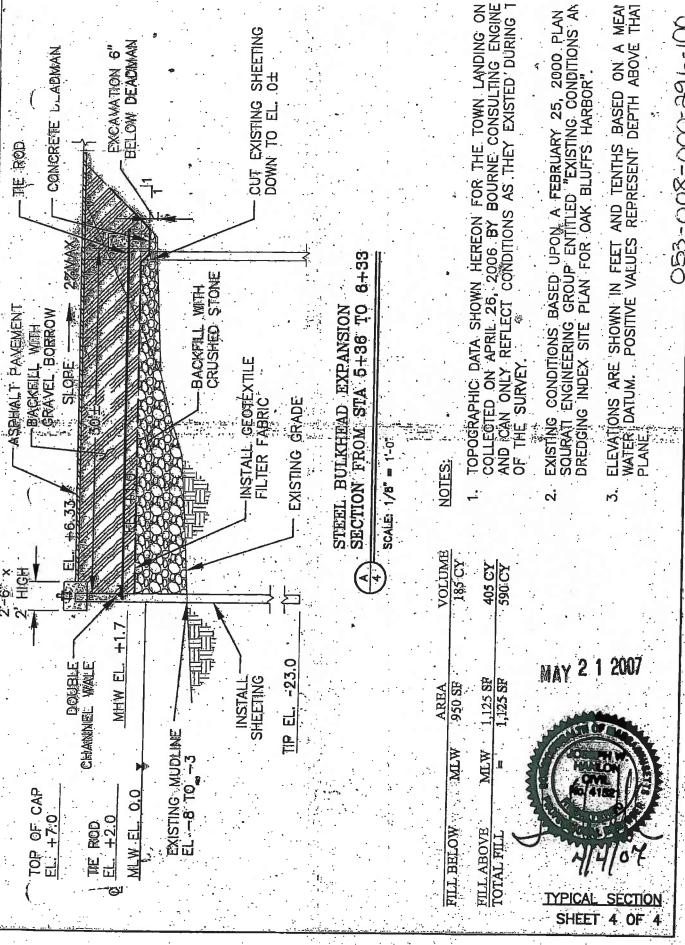
TO CONSTRUCT AND MAINTAIN FILL, STEEL SHEET PILE BULKHEAD, TIMBER MOORING PILES & EXTENSION OF EXISTING STORM DRAINAGE OUTFALLS WITHIN OAK BLUFFS HARBOR ALONG LAKE AVE.

LICENSE PLAN NO. 1/52 Approved by Department of Environmental Quality English Messelwetts QCTQQEK 19, 1984

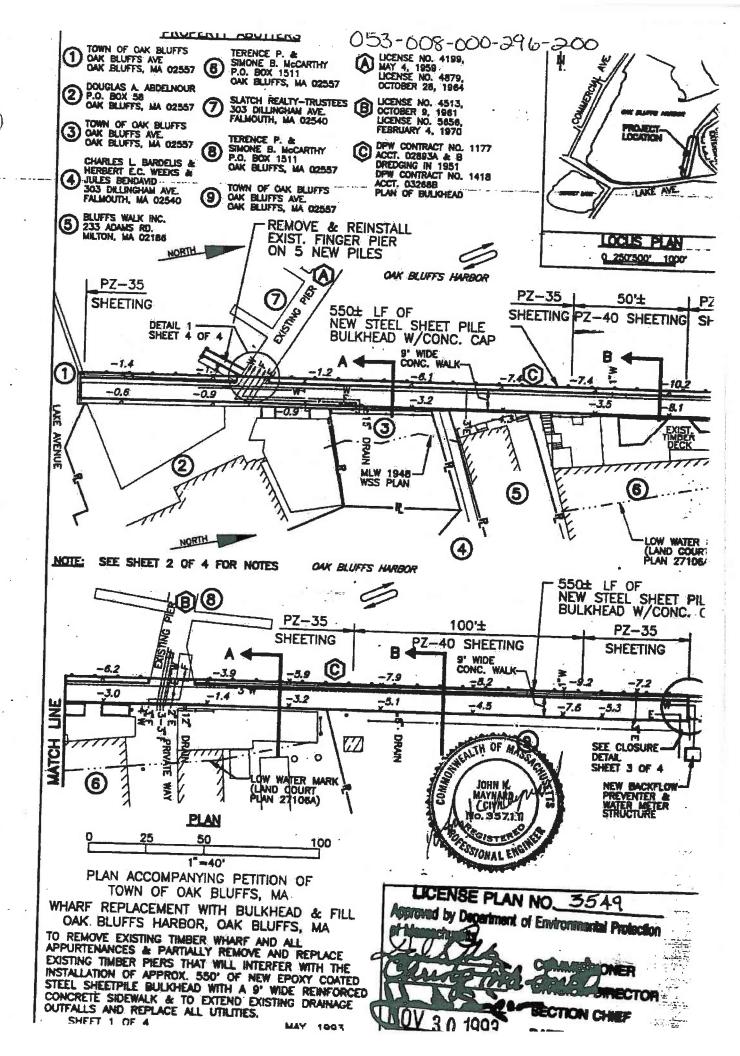


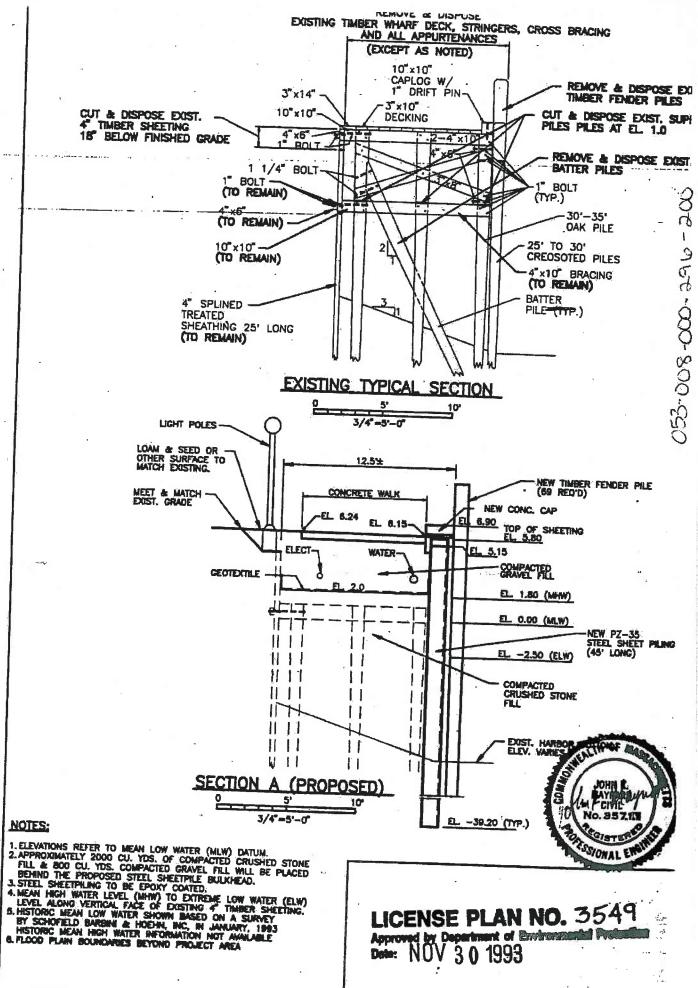






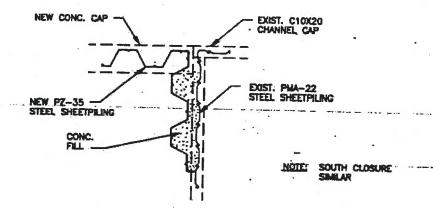
053-008-000-396-100 053-009-000-058-200



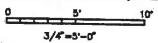


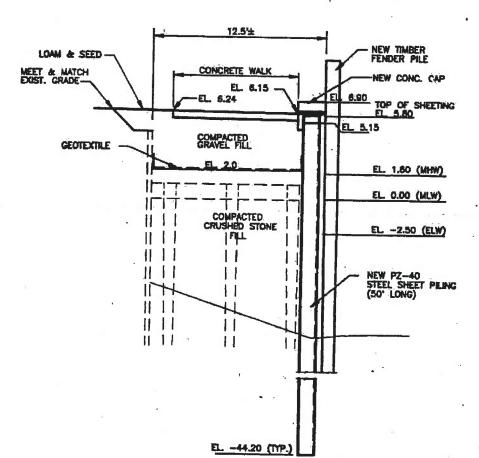
SHEET 2 OF 4

MAY, 1993

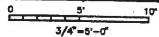


CLOSURE DETAIL (PLAN)





SECTION B (PROPOSED)



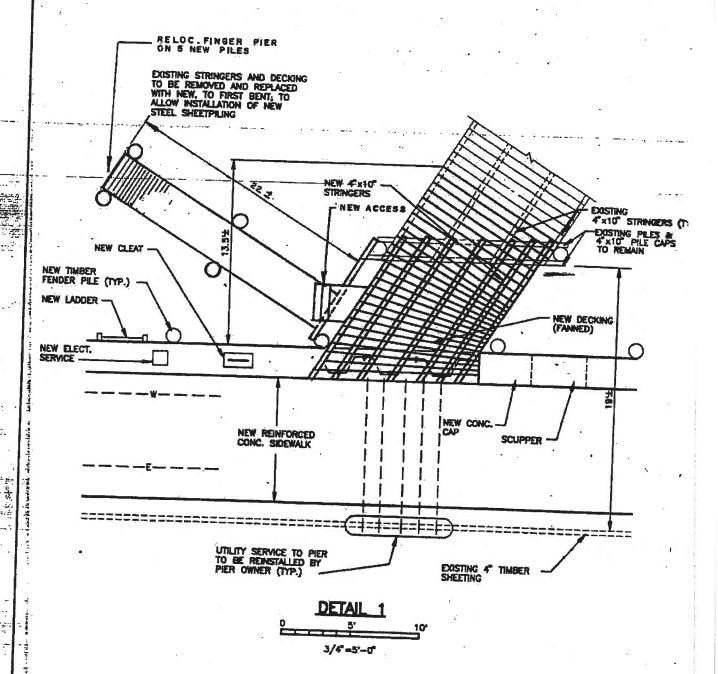


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000 S 000 SCC

Approved by Department of Environmental Production Date: NOV 3 0 1999



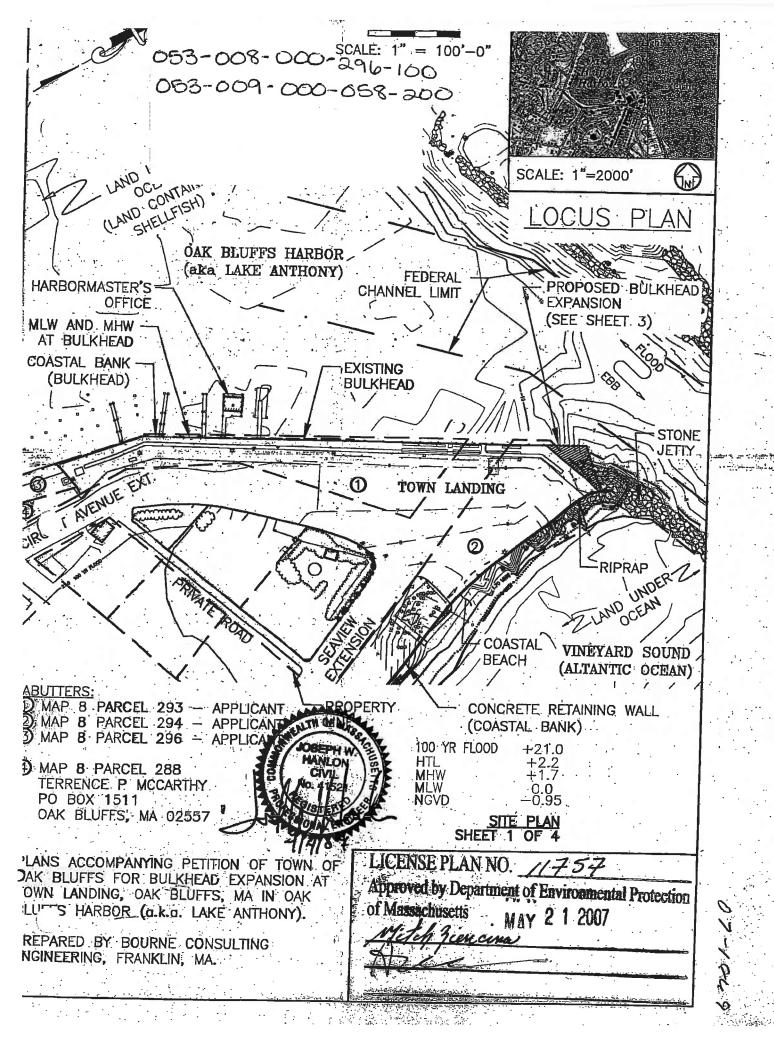


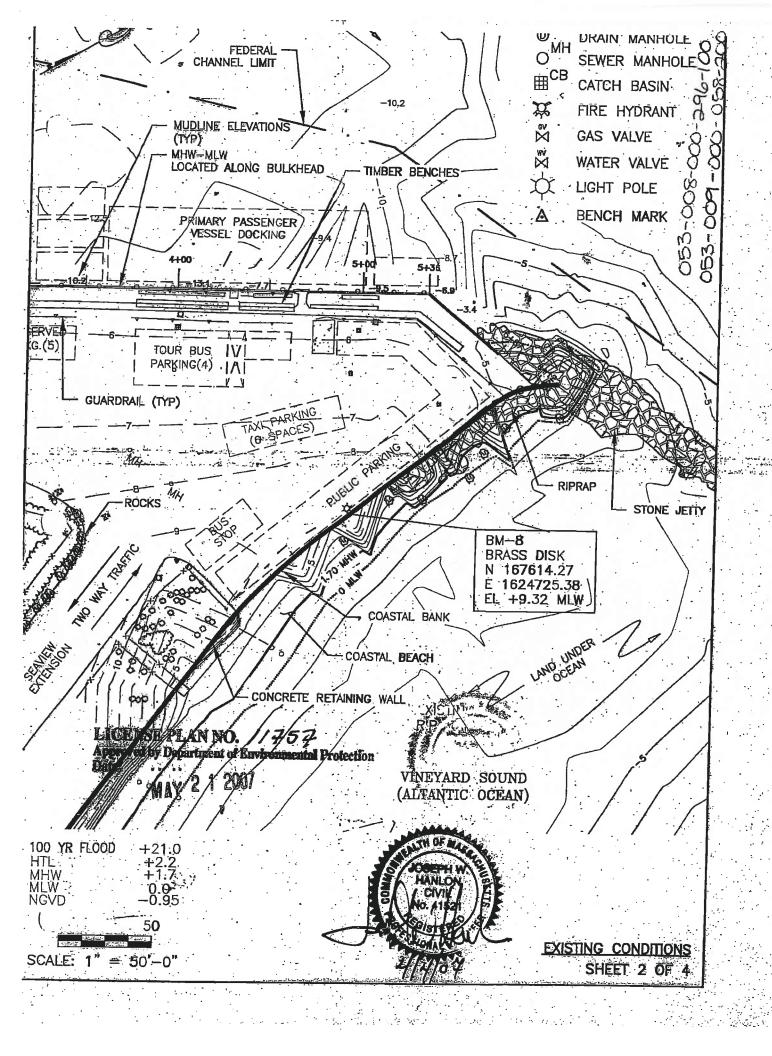
LICENSE PLAN NO. 3549
Approved by Department of Environmental Production
Date: NOV 3 0 1993

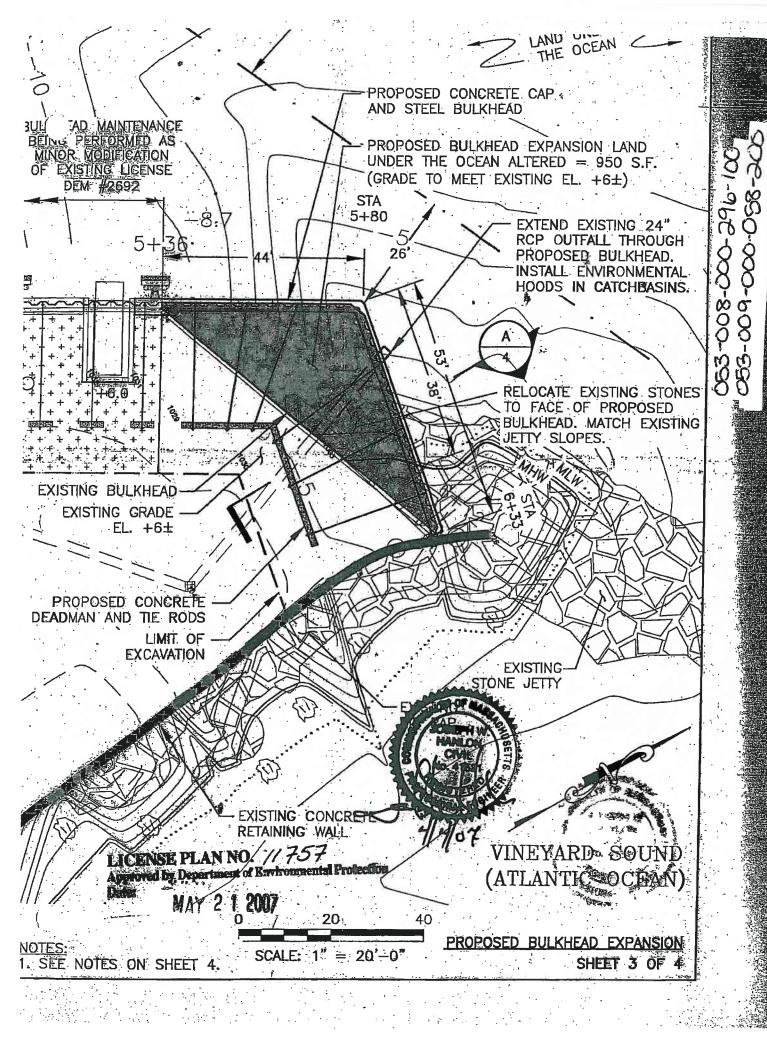
2.3. 355

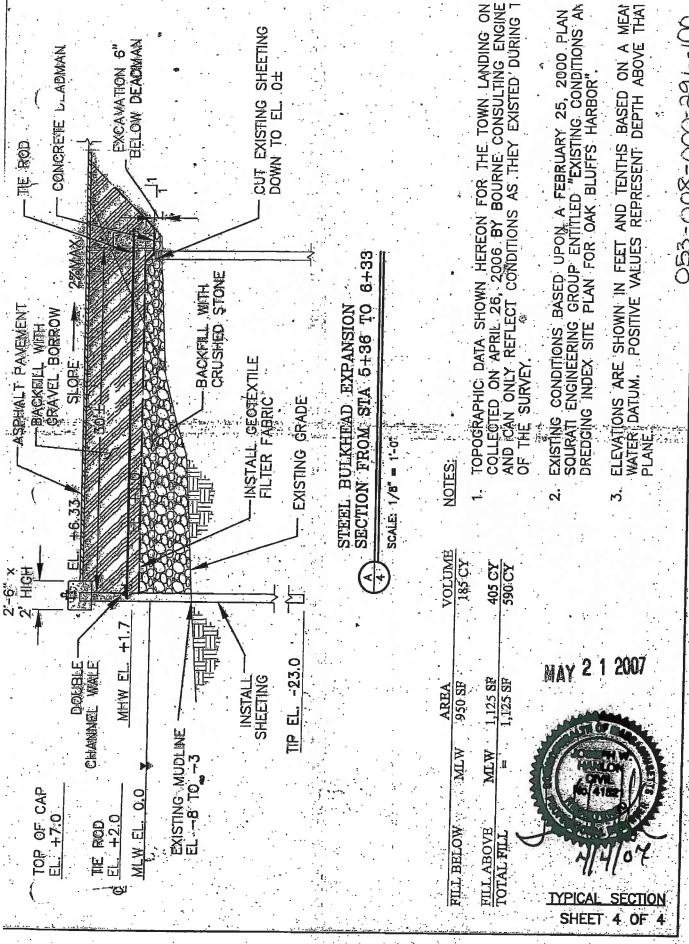
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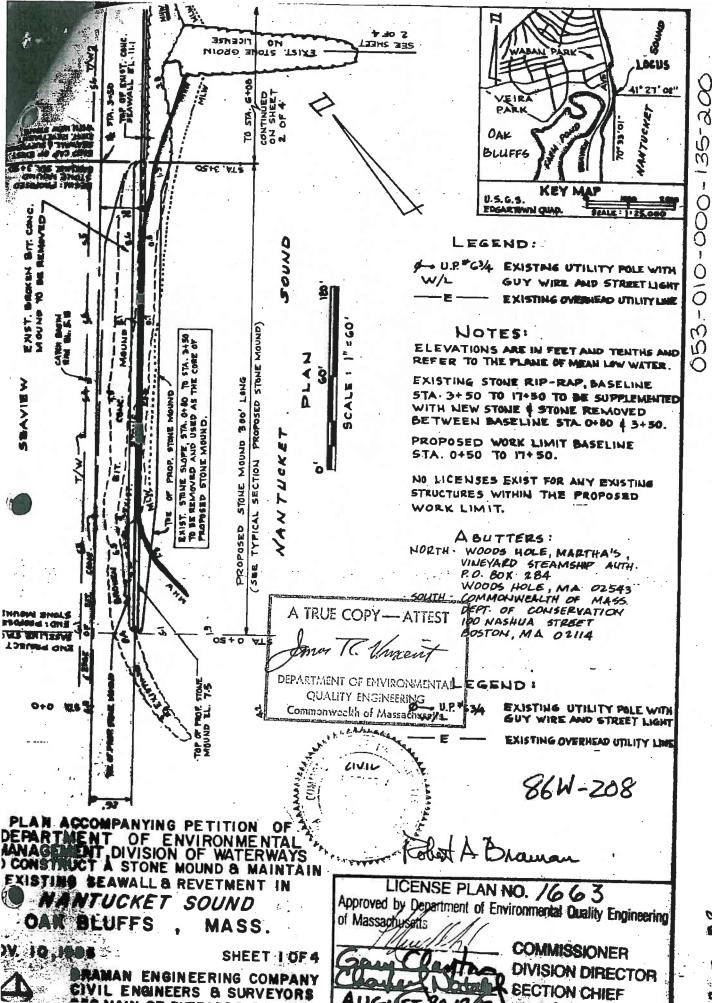




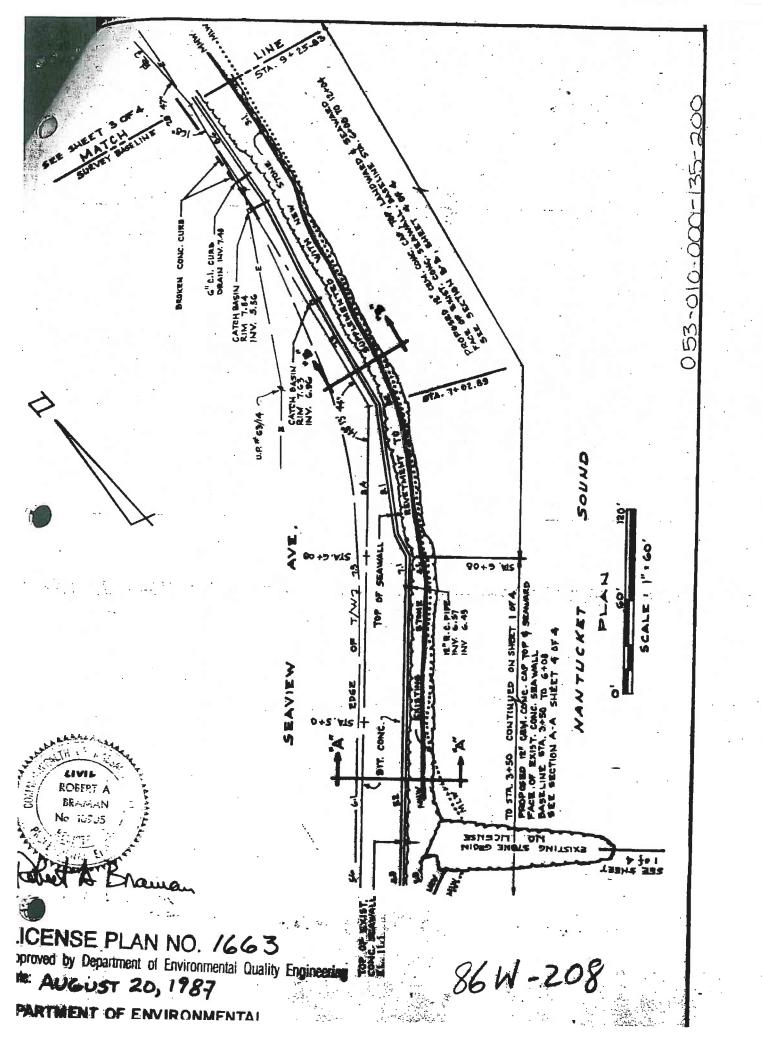


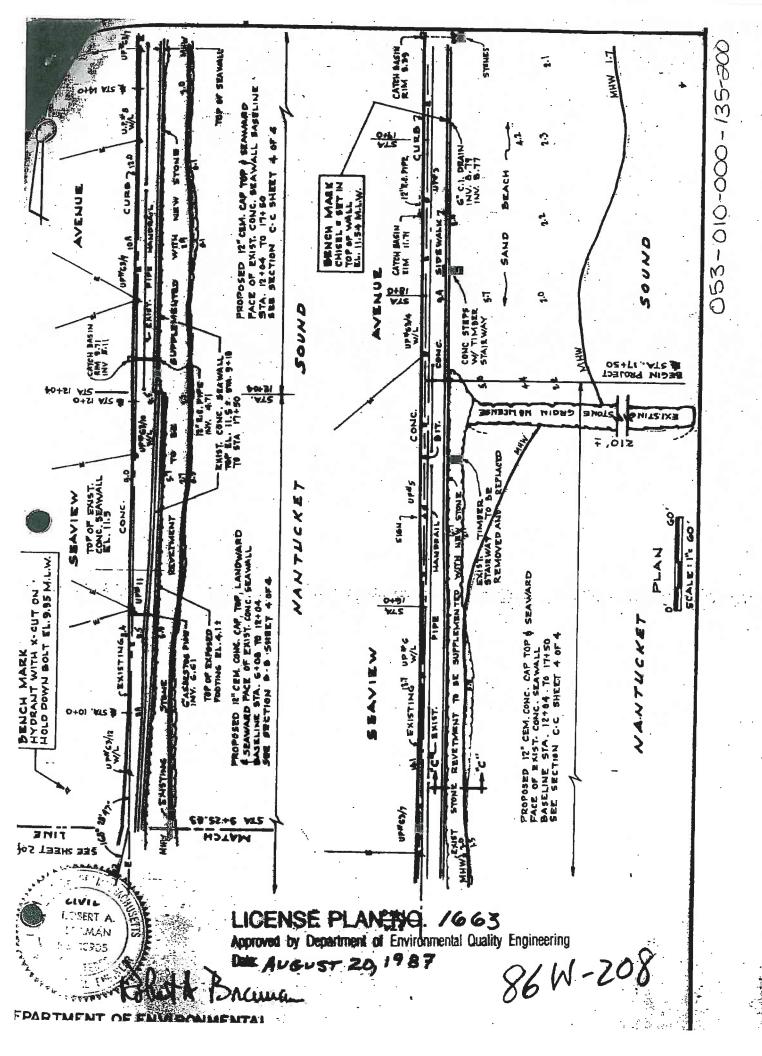


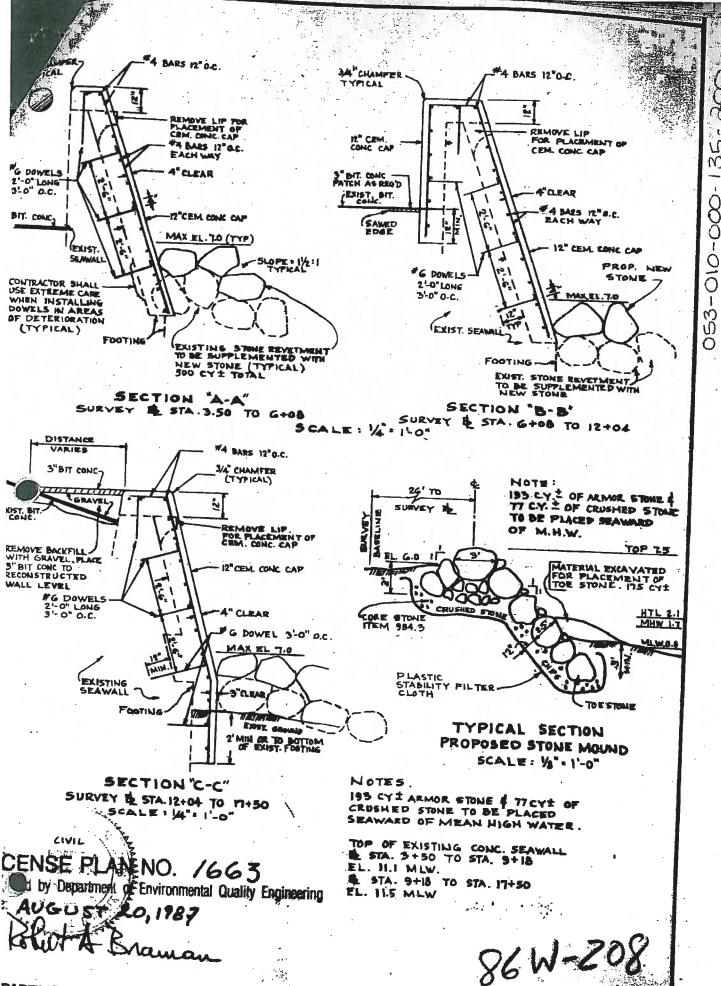
001-966-000-800-550 053-009-000-058-20C



82-208





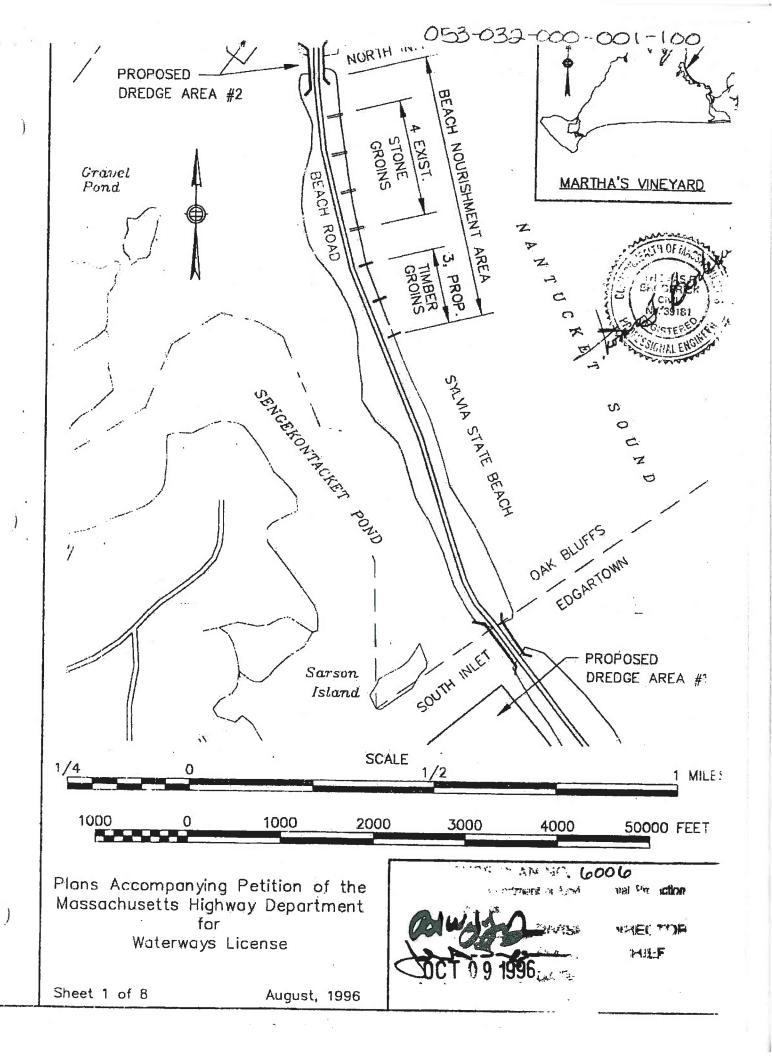


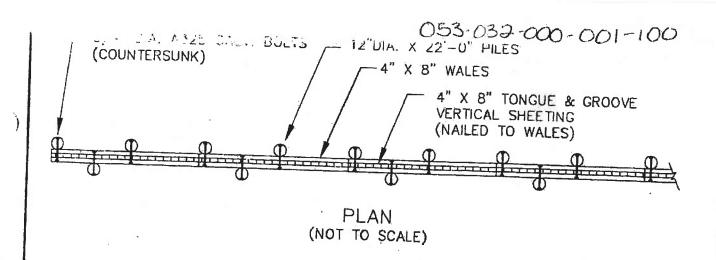
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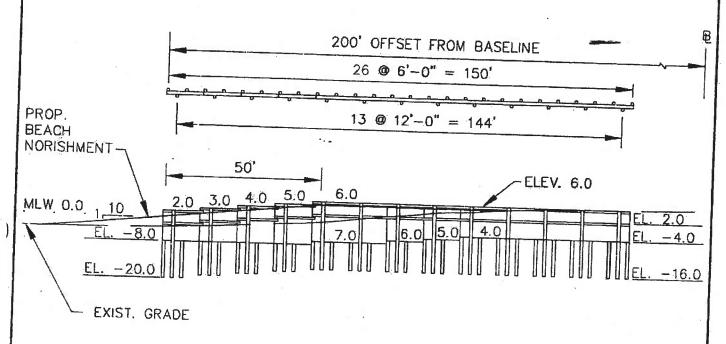
M)

90-

PARTMENT OF FARMBOLILIERS







ELEVATION

(TYPICAL FOR ALL PROPOSED GROINS)
SCALE 1" = 30'



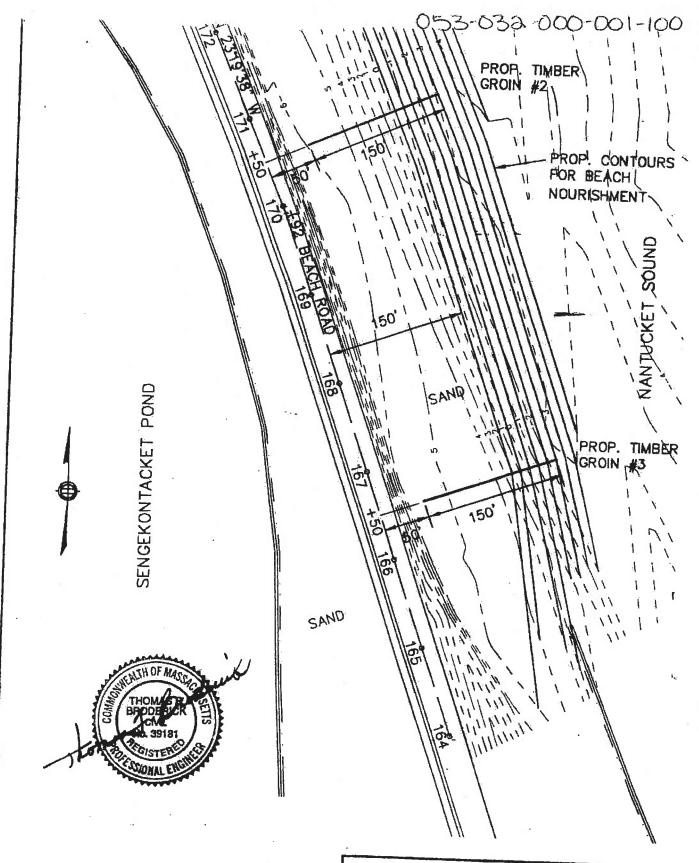
- NOTE: 1. ALL WOOD MATERIAL SHALL BE SOUTHERN PINE GRADE #1 DENSE OR EQUAL, PRESSURE TREATED.
 - 2. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE AASHTO M164 (ASTM A325) HIGH STRENGTH (ALL MATERIAL SHALL BE GALVANIZED).
 - 3. MEAN HIGH WATER (MHW) = EL. 1.7 MEAN LOW WATER (MLW) = EL. 0.0

Plans Accompanying Petition of the Massachusetts Highway Department for Waterways License

4-0016

Sheet 2 of 8

August 1996



Plans Accompanying Petition of the Massachusetts Highway Department for

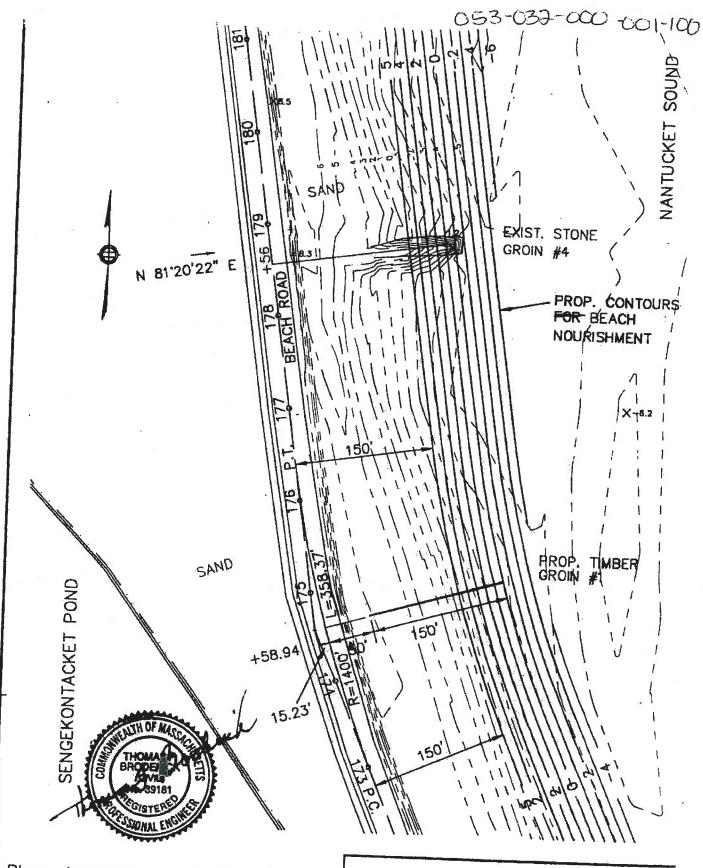
Waterways License Scale 1" = 100'

Sheet 3 of 8

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August 1996

LICENSE PLAN NO. 6006
Approved by Department of Environmental Present
Date: OCT 0 9 1996



Plans Accompanying Petition of the Massachusetts Highway Department for

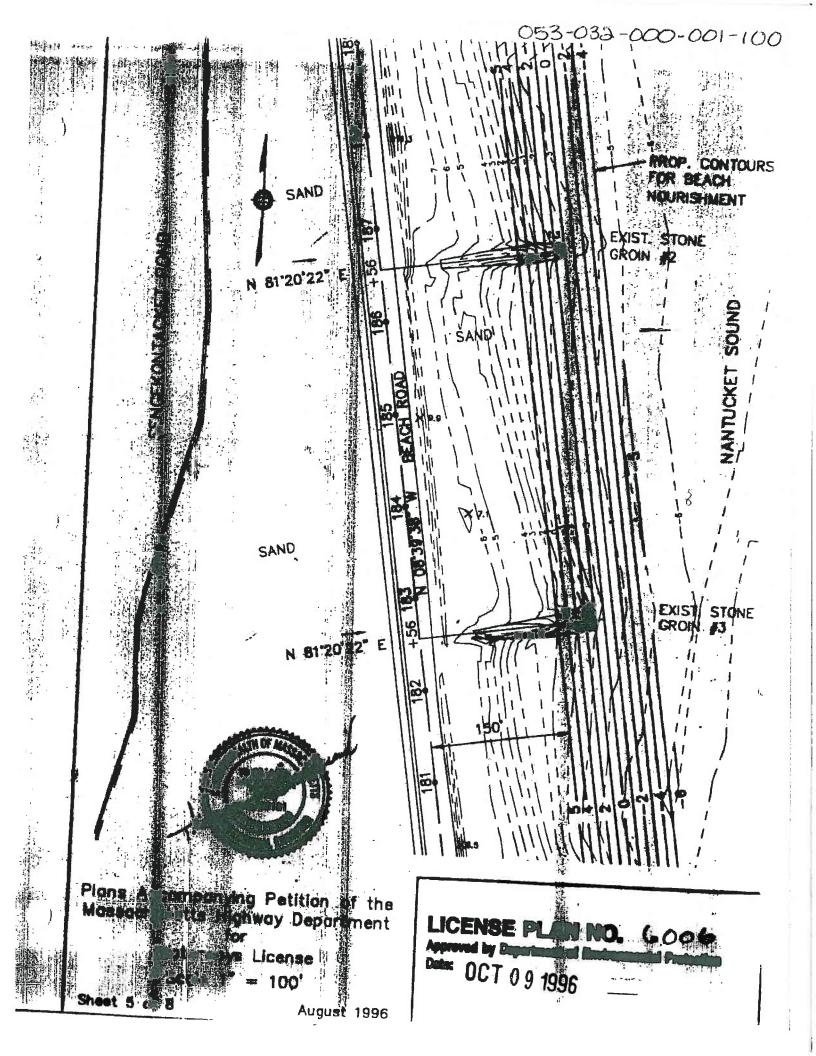
Waterways License Scale 1" = 100'

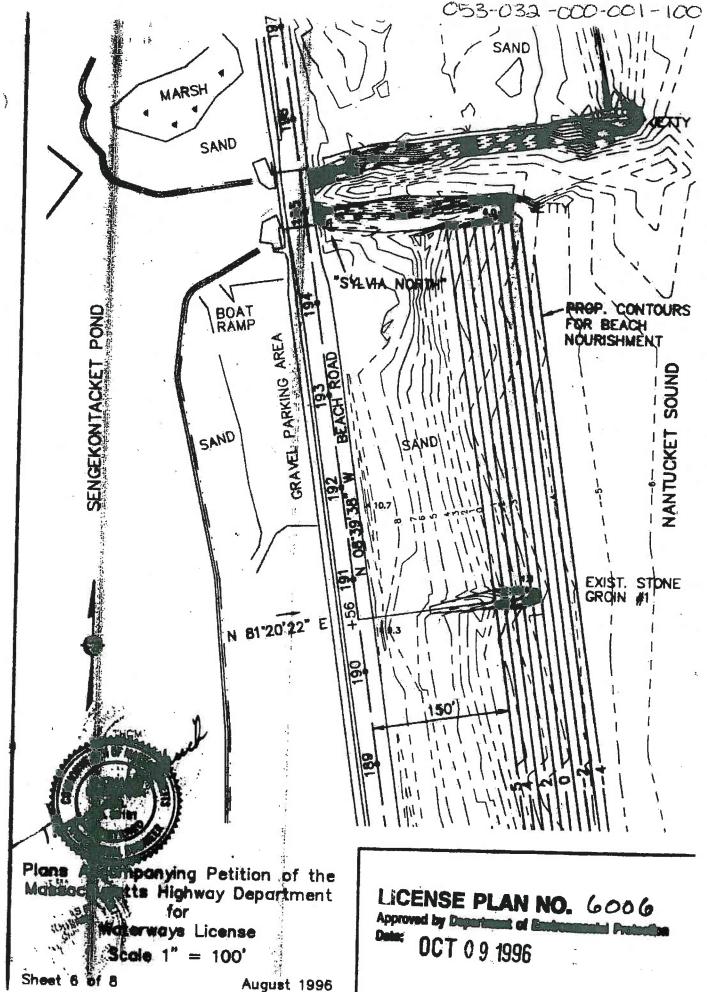
Sheet 4 of 8

1

August 1996

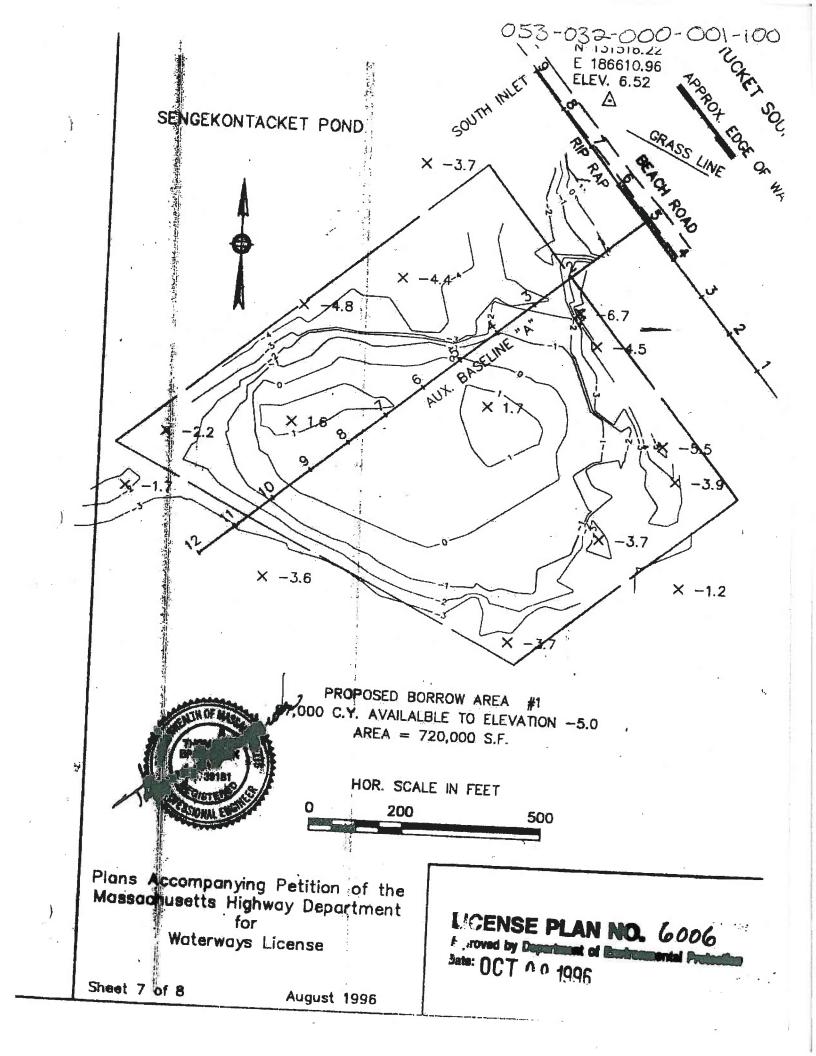
OCT 0 9 1996

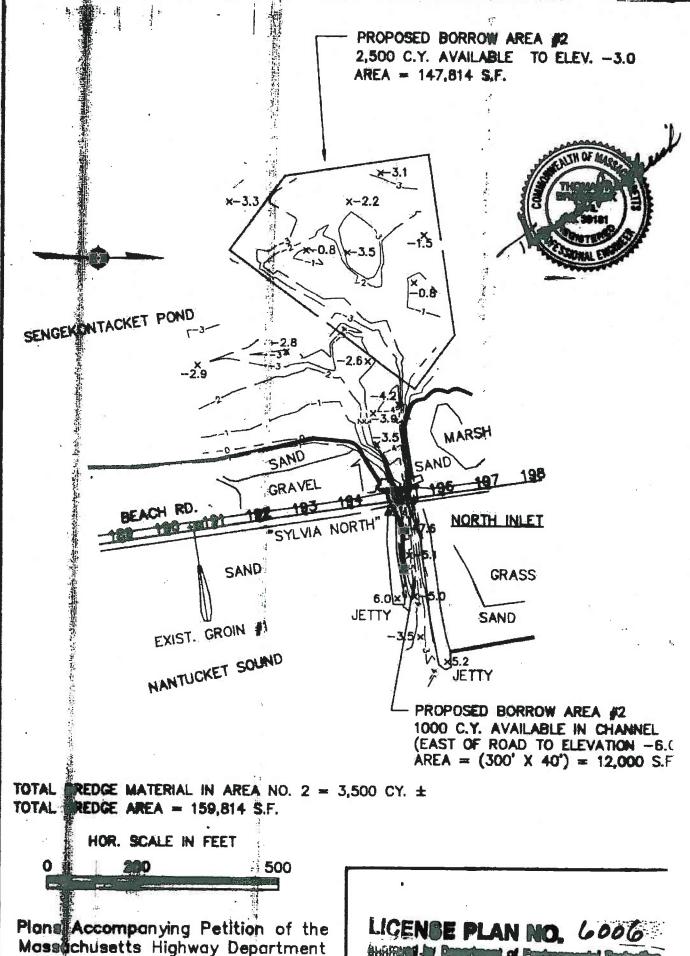




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13

LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

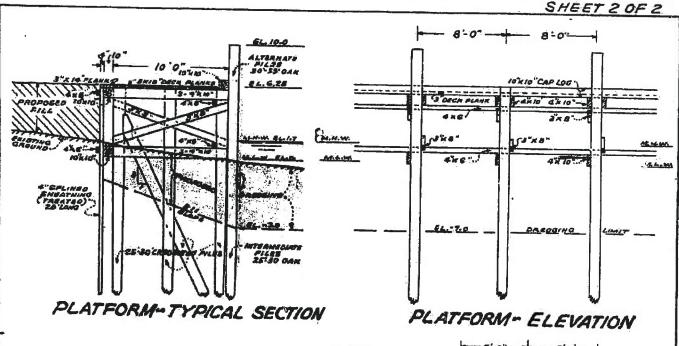
TOWN: OAK BLUFFS SOURCE: US ACOE

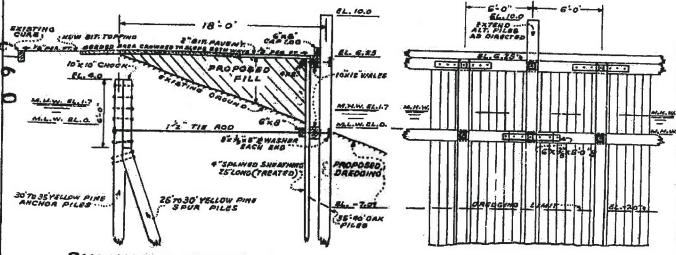
Timber Bulkhead Bulkhead Bulkhead Bulkhead Bulkhead Bulkhead Bulkhead Jetties Groins Jetties Jettles Jettles Nantucket Sound - Sengekontacket Pond Beach Road Bridge Beach Road Bridge Beach Road Bridge Beach Road Bridge Circuit Avenue Circuit Avenue Lake Avenue Lake Avenue Lake Avenue Circuit Avenue Circult Avenue 7 2 2 8 -2 Proposed Bulkhead and Dradging - Oak Bluffs
Harbor - Oak Bluffs, MA
Proposed Harbor Improvements - Dradging and
Steel Shetpling Bulkhead - Oak Bluffs and
Oak Bluffs, MA
Proposed Bulkhead and Dradging - Oak Bluffs
Proposed Harbor Improvements - Dradging and
Steel Sheetpling Bulkhead - Oak Bluffs Harbor,
Oak Bluffs, MA Proposed Excavation and Jettles - North Inlet Sengekonlacket Pond - Oak Bluffs, MA
Proposed Excavation and Jettles - South Inlet Sengeknotacket Pond - Edgardown and Oak
Bluffs, MA
Proposed Excavation and Jettles - North Inlet Sengekonlacket Pond - Oak Bluffs,
Messachusetts Proposed Stone Groins - Nantucket Sound Vicinity of Sengekontacket Pond - Oak Bluffs, MA Proposed Bulkhead Replacement in Oak Bluffs Harbor and Culvert Replacement in Sunset Lake Proposed Timber Bulkhead and Dredging - Oak Bluffs Harbor - Oak Bluffs, MA Proposed Excavation and Jetties - South Inlet -Sengekontacket Pond - Edgartown and Oak Bluffs, MA Proposed Bulkhead, Dredging and Timber Platform Extension - Oak Bluffs Harbor - Oak Bluffs, MA есетрег 31, 198 September 1951 December 1957 September 1951 August 1954 March 1970 March 1970 March 1954 April 1961 April 1961 April 1961 April 1961 Date Municipality Oak Bluffs USACE 54-217 61-249 04811 61-259 61-249 61-259 02895 02895 04811 58-21 85-2 54-86 053-008-000-139-100-COE1B 053-008-000-296-100-COE1A 053-008-000-296-100-COE1B 053-032-000-002-100-COE1B 053-008-000-139-100-COE1A 053-008-000-296-200-COE2A 053-008-000-296-200-COE2B 053-032-000-001-100-COE1A 053-032-000-002-100-COE1A 053-032-000-002-200-COE2A 053-032-000-002-200-COE2B 053-008-000-139-100-COEC Document No 053-008-000-139-100 053-008-000-139-100 053-008-000-296-100 053-008-000-296-100 053-008-000-139-100 053-008-000-296-200 053-008-000-296-200 053-032-000-001-100 053-032-000-002-200 053-032-000-002-100 053-032-000-002-100 053-032-000-002-200 **BCE Structure No**

053-008-000-139-100 SHEET 1 OF 2 OAK BLUFFS HARBOR BLUFF Proposed Dredging to 7 ft. De LAKE SHOW ELEVATIONS ABOVE THE SAME PLANE. LOCATION OF PROPOSED WORK SHOWN IN RED. METHOD OF DREOGUE IS OFTIONAL AND MATERIAL REMOVED, APPROPA, IN, DOC CT., USED AS BACKFILL FOR BULKHEAD. ANY SURPLUS TO BE DUMPED AND ROUGH CASDED ALONG SKORE OF SUNGET LAKE AE DIRECTED BY THE BUGINERY. FOR ANCHOR PILES AND 116 ROOB UNDERGROUND AND NOT INDUCATED ON THIS PLAN BEE SECTIONE. ON NEXT EMBEL. PROPOSED BULKHEAD, DREDGING, É TIMBER PLATFORM EXTENSION OAK BLUFFS HARBOR OAK BLUFFS, MASS. DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS AUGUST 1954 Astart B. Maximor DISTRICT WATERWAYS ENGINEER

0 9 2 0 5 0 8

053-008-000-139-100





BULKHEAD-TYPICAL SECTION

BULKHEAD-ELEVATION

ALL SCALES THIS SHEET

FEET

'A"= !'

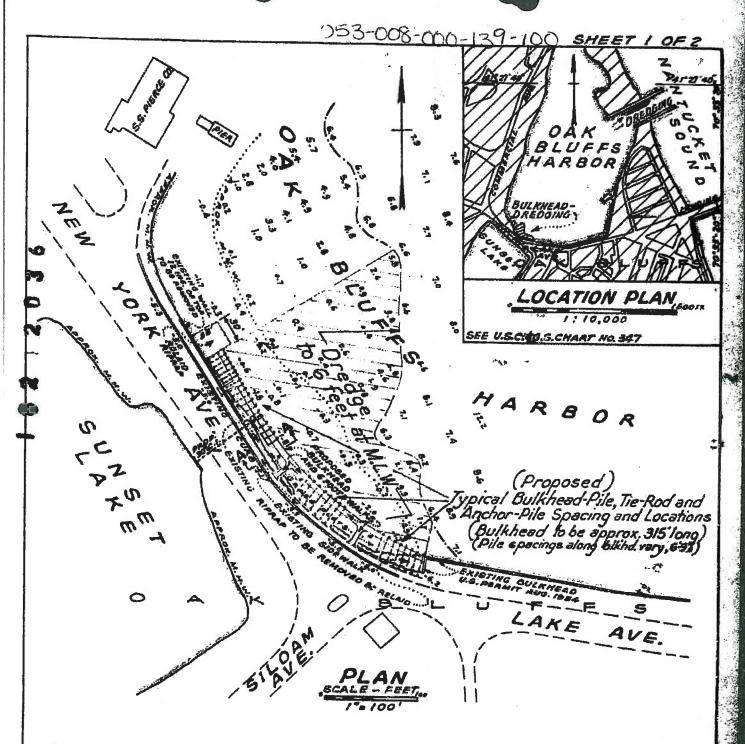
PROPOSED BULKHEAD, DREDGING, & TIMBER PLATFORM EXTENSION OAK BLUFFS HARBOR

OAK BLUFFS, MASS.

DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS

DIVISION . WATERWAYS AUGUST 1954

Robert G. Markemon DISTRICT WATERWAYS ENGINEER



NOTE

SOUNDINGS ARE IN PEET AND TENTHS BELOW PLANE OF MEAN LOW WATER MINUS FIGURES SHOW ELEVATIONS ABOVE THE SAME PLANE, PROPOSED DREDGING IS IN TWO LOCATIONS, A-MOUNTING TO 10,500 CY. THIS SHEET, AND 1,100 CY, SHEET 2. DREDGED MATERIAL TO BE DISPOSED OF ON BEACH TEAST CHOP BEACH CLUB PROPERTY, ABOVE MEAN HIGH WATER. ALL TIMBER CONSTRUCTION, HARDWARE, ETG. TO BE IN ACCORDANCE WITH CURRENT STANDARD USAGE.

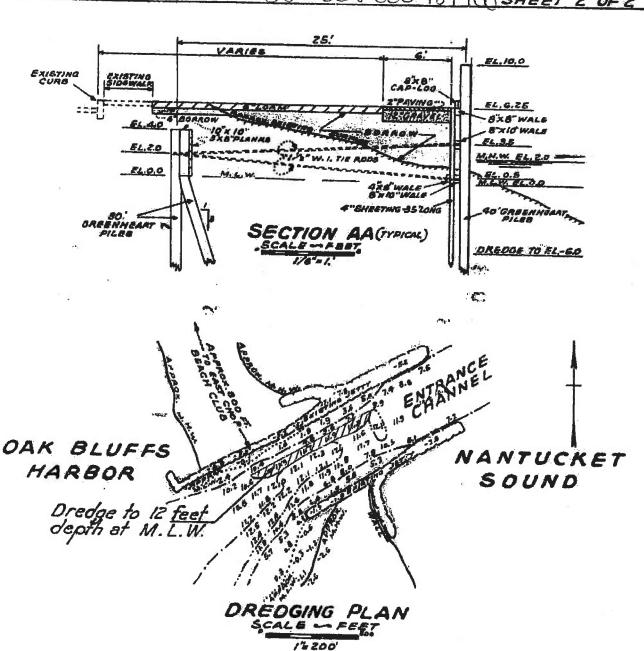
PROPOSED
TIMBER BULKHEAD MODREDGING
OAK BLUFFS HARBOR
OAK BLUFFS MASS.

DECEMBER 1957

Cofet B. Macking

0 8 4 0 0 8 6

053-008-000-139-10 SHEET Z OF 2



NOTE

SOUNDINGS ARE IN EAST AND TENTHS AND SHOW DEPTHS BELOW PLANE OF MEAN LOW WATER, MINUS FIGURES SHOW ELEVATIONS ABOVE THE SAME PLANE.

DREDGED MATERIAL, APPROX, 1,100 C.Y. TO BE DISPOSED OF WITH OTHER SUCH MATERIAL 10,500 C.Y. (SHEET!) ON PROPERTY OF EAST CHOP BEACH CLUB, NO. WEST OF CHANNEL AREA. LOCATION PROPOSED WORK SHOWN IN ACD. ALL TIMBER CONSTRUCTION, HARDWARE, ETC. TO BE IN ACCORDANCE WITH CURRENT STANDARD USAGE.

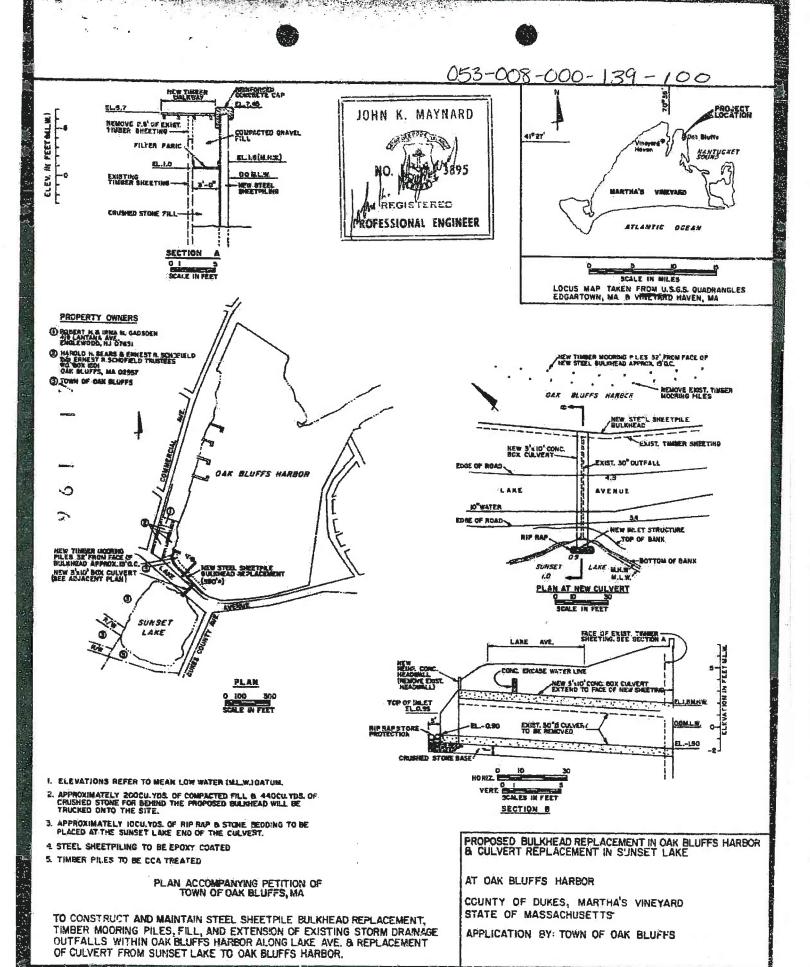
PROPOSED

TIMBER BULKHEAD PAREDGING

OAK BLUFFS HARBOR

OAK BLUFFS -- MASS.

DEPARTMENT & PUBLIC WORKS & MASSACHUSETTS
DIVISION OF WATERWAYS
DECEMBER 1957
Robert B. Mar News



8

PLAN

1:4000

053-008-000-296-100 053-008-000-296-200 SHEET NO. 1 OF 2 4/120 MAP 1180,000 SEE U.S.C. & G.S. CHART NO. 1209 NOTE AREA SHOWN IN RED TO BE DREDGED TO R DEPTH OF 10 FEET AT MEAN LOW WATER, AMOUNT OF MATERIAL TO BE REMOVED, APPROX-IMMATELY 30,000 CUEIC YARDS. SOUNDINGS ARE IN FEET AND TENTHS AND SHOW DEPTHS BELOW THE PLANE OF MEAN LOW WATER MINUS FIGURES SHOW ELEVATIONS ABOVE THE SAME PLANE. METHOD OF REMOVAL IS OFFICIAL OF REMOVED BY SCOKE IT SHALL BE DUMPED AT SEA IN NANTUCKET SOUND ABOUT TWO STATUTE MILES EAST OF THE ENTRANCE TO OAK BLUFFS HARBOR ON ESTABLISHED DUMPING GROUND SUCH DISPOSAL TO BE SUBJECT TO APPROVAL OF THE U.S. ENGINEERS. IF REMOVEO BY THE HYDRAULIC WETHOD, THE MATERIAL IS TO BE DISPOSED OF ABOVE MEAN HIGH WATER IN LOCATIONS APPROVED BY THE ENGINEER.

PROPOSED BULKHEAD & DREDGING OAK BLUFFS HARBOR

OAK BLUFFS , MASS.

DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS SEPTEMBER 1951

Tocal Mutchins WATERWAYS ENGINEER

HOUSE

BLUFFS

" WENT " " TOM " MINTER! "

MGH WATER I

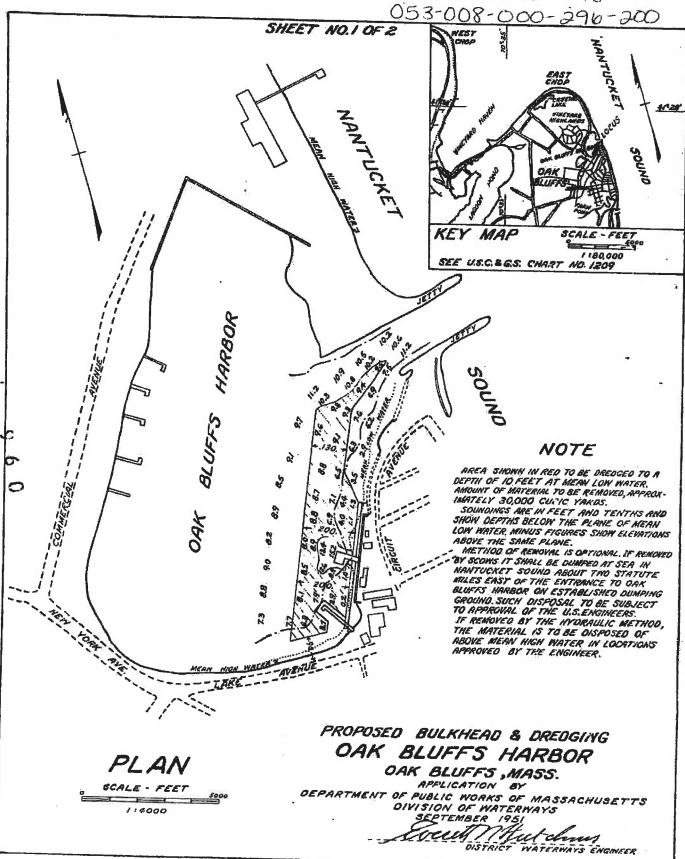
053-008-000-296-100 3-008-000-296-200 SHEET NO.2 OF 2 PROPOSED BULKHEAD, DREDGING & TIMBER PLATFORM OAK BLUFFS HARBOR OF MASSACHUSETTS

VISION OF WATERWAYS
SEPTEMBER 1951
VANLOWN STATELL

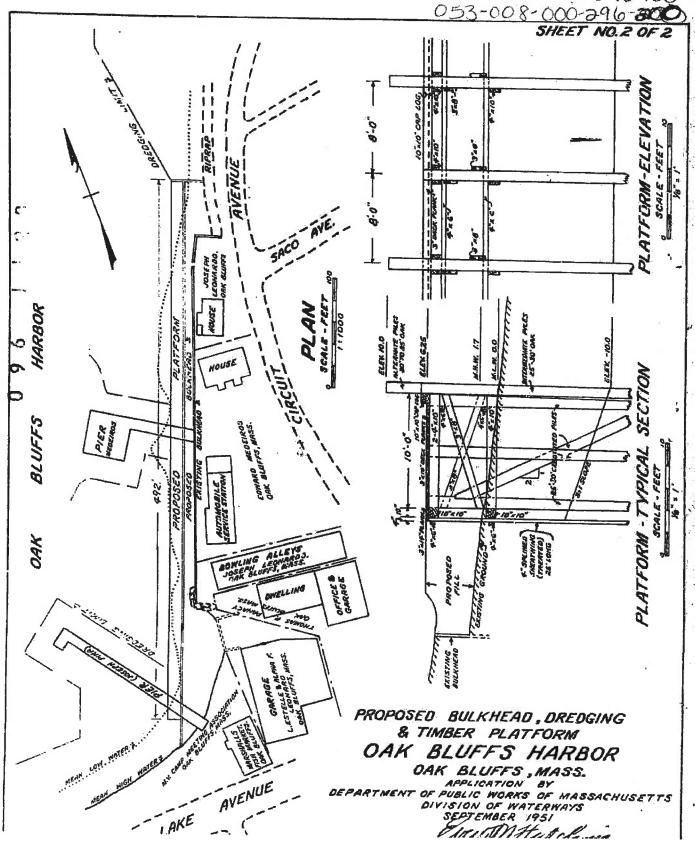
The second of th

STEEL BASST PILE BULKHEAD . MOORING POST APPROX. EXIST. (TYR) STEEL SURET P PAY LIMIT 40 TO ANCHOR TYPICAL CROSS SECTION LOCATION PPON EXIST SCALE 14-11-0" ASTIC STABILITY STONE KEVETMENT HARBOR SECTION COCATION CA PROPOSED WARE SM W AED ELEVISIONE AND IN CLETI AND IN AND SPACE A SECURITY OF THE CONTROL PROPOSED HARBOR IMPROVEMENTS DREDGING & STEEL SHEETPILING BULKHEAD OAK BLUFFS HARBOR OAK BLUFFS MASS. APPLICATION BY DEPARTMENT OF PUBLIC WORLS OF MASSACHUSETTS PLAN DIVISION OF WATERWAYS SCALE 1" . 100" MARCH 1970 CHIEF ENGINEER FOR WATERWAYS GRIST TIMBER WART ACC. NO. 04811

0.53-008-000-296-100



053-008-000-296-100



STEEL BOOK PILE COLPHEAD GROUNDS HAW BLAND (TYR) PAY LIMIT 40 TO ANCHOR TYPICAL CROSS SECTION APPOX EXIST LOCATION SCALE % .1-0" FROM WREEKS CHART ASTIC STABILITY STONE REVETMENT LOCATION OF PROPOSED WORK THE CHEST OF STATE OF PROPOSED HARBOR IMPROVEMENTS DREDGING & STEEL SHEETPILING BULKHEAD OAK BLUFFS HARBOR CAK BLUFFS MASS. APPLICATION BY DEPARTMENT OF PUBLIC WORLS OF MASSACHUSETTS PLAN DIVISION OF WATERWAYS SCALE 1" . 100' MARCH 1970 PUTY CHIEF ENGINEER FOR WATERWAYS EXIST TIMERREMANT ACC. NO. 04811

NEW ENGLAND DIV.



Apr 9 36 14 151 053-030-000-001-100 Tee se gaoin ange GROIN PROFILE TYPICAL : NO. 1,2 GROIN PROFILE NO.4 SCALE-FEST-BOTH PROFILES Ŋ O n Groin No.3 3 SECTION AA T 4. 8.8 (688 PROPILE) SECTION BB (1) PROPOSED STONE GROINS VICINITY SENGEKONTACKET POND

OAK BLUFFS-MASS

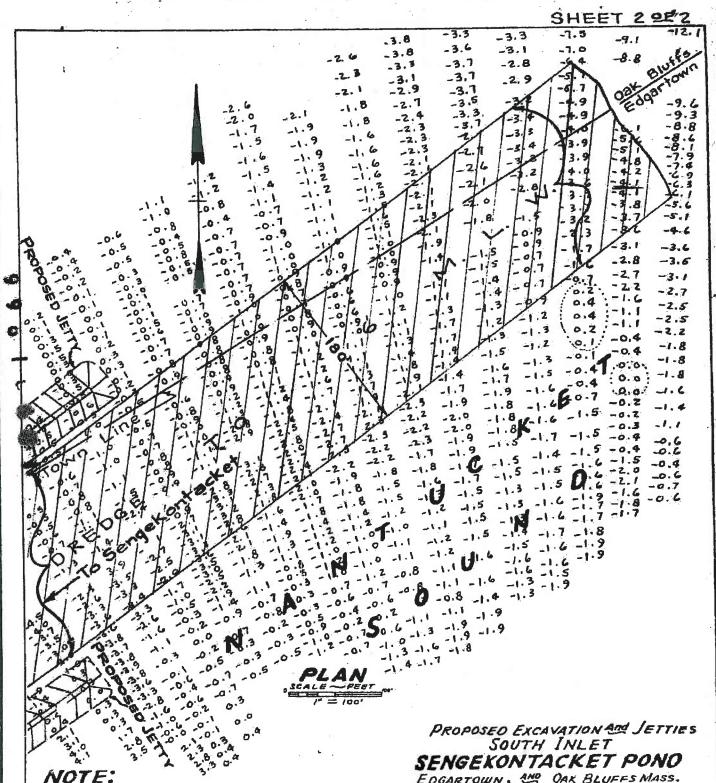
OEPARTMENT PUBLIC WORKS MASSACHUSETTS

OIVISION WATERWAYS

MARCH 1954 NOTE ELEVATIONS ARE IN FEET AND TENTHS ABOVE THE PLANE OF MEAN LOW WATER. MINUS PIGURES SHOW DEPTHS BELOW SAME. WORK TO HE DONE SHOWN IN RED. OISTRICT WATERWAYS ENGINEER.

080 1 4 6 3 053-032-000-002-100 053-032-000-002-200 PROPOSED JETTY NO.1 SLOPE 1/4-1 SECTION SETTY NO. 1 JETTY NO.Z SAME-OPPOSITE HAND SCALE FEET LOCATION MAP SEE U.S. GEOL. SUNY, EDGARTOWN QUAD AND THE PROPERTY OF THE PROPER CM, LW. BLO.D Emay Limit 180 Elevation 10 Ally Nove Jetty No. 1 SECTION A-A SCALE - FEET - (BOTH SECTIONS) THE JETTIES INTO EXISTING BRIDGE REVETMENT EXISTING BRIDGE TOP OF PROPOSED JETTY Siope 1/2-1 S DO JOS PROPOSIO CANANAL M.H WELST M.L.W. EL 0.0 PROPOSED EXCAVATION AND JETTIES PROFILE OF JETTIES SOUTH INLET SENGEKONTACKET POND SCALE FEBT NOTE: EDGARTOWN, CHI OAK BLUFFS MASS. ELEVATIONS AND IN PEET AND TENTING AND REFLIX TO THE PLANE OF MEAN LOW WATER MINUS FLOURES DENOTE DEPTHS BELOW THE SOME PLANE. LOCATION OF PROPOSED WORK SHOWN DEPARTMENT LE PUBLIC WURKS LE MASSACHUSETYS DIVISION & WATERWAYS
APRIL 1961 IN REP. DESCRIPTION OF A SOURCE CO.

Robert B. Markenson



ENEVATIONS ARE IN FEET AND TENTES AND REFER TO THE PLANE OF MEAN LOW WATER MINUS FIGURES DENOTE BEPTHS BELOW THE SAME PLAND. LUCATION OF PROPOSED WORK SHOWN IN KED. DRIFUED MATERIAL APPROX, 43, 600 G.Y. TO AT DISPOSED OF ALONG BEASURS ARM THE TO DECIGING AKEAS.

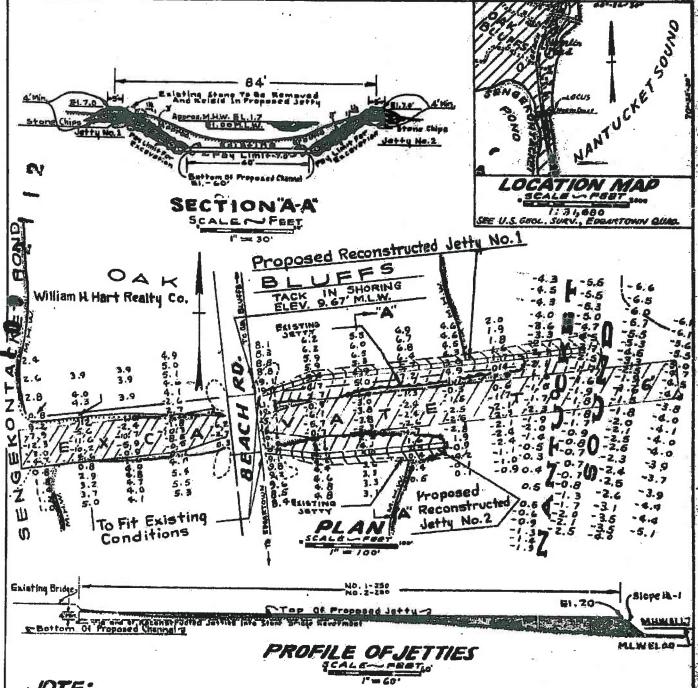
APPLICATION BY DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS APRIL 1961

EDGARTOWN, AND DAK BLUFFS MASS.

Robert B. Marsimon CHEF

n 6

053-032-000-002-100



NOTE:

ELEVATIONS ARE IN FEET AND TENTHS AND CLEVATIONS MELINIEST AND TONTHS AND REFER TO THE PLANE OF MEAN LOW WATER, MINUS FIGURES DENOTE DEPTIS BELOW THE SAME PLANE LOCATION OF PROPOSED WORK SHOWN IN RED. EXCAVATED MATERIAL APPROX.8600 C.Y. TO DE DISPOSED OF ALONG SHORE ADMICENT TO EXCAVATED AREAS.

PROPOSED EXCAVATION AND JETTIES NORTH INLET

SENGEKONTACKET PONO

OAK BLUFFS, MASSACHUSETTS

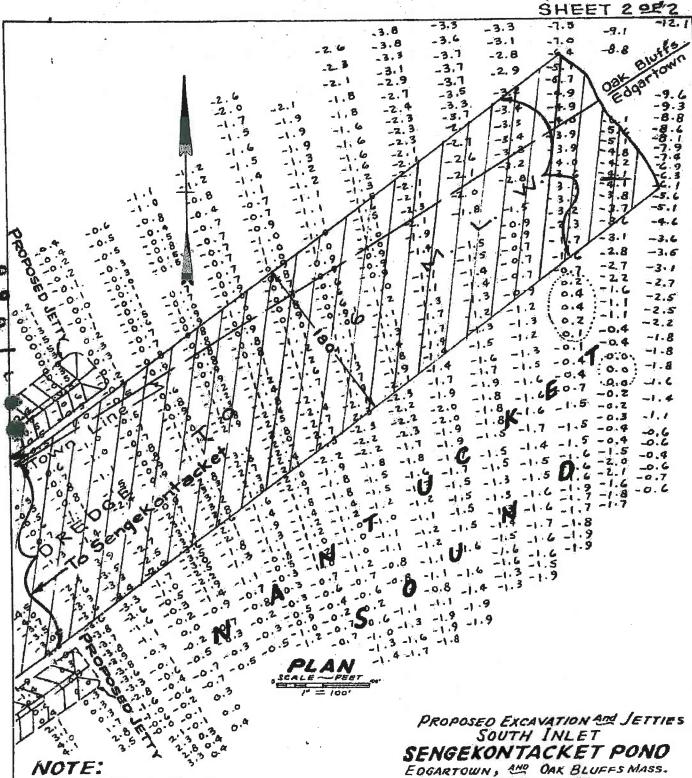
APPLICATION BY

OFFARTMENT DE PUBLIC WORKS DE MASSACHUSETTS

OIVISION 2º WATERWAYS APRIL 1961

> Robert B. Mockey WATERWAYS ENGINEER

1 4 6 3 053-032-000-002-100 053-032-000-002-200 PROPOSED JETTY NO.1 SLOPE 1%-1 SECTION~JETTYNO. 1 IETTY NO. 2 SAME-OPPOSITE HAND SCALE FEET LOCATION MAP 7: 31, 680 SEE U.S. GEOL. SURV., EDGARTOWN QUAD J. 4 4 D. CHAPTER OF MAINTINE CALL ES AND A DESCRIPTION OF CM. L.W. BLO.D Fay Limit 180 Elevation to Jelly Nove Jatty Na. 1 SECTION A-A SCALE FEET - (BOTH SECTIONS) THE JETTIES INTO EXISTING BRIDGE REVERMENT EXISTING BRIDGE TOP OF PROPOSED JETTY Siope 1/2-1 POSES CHANNELS M.L.W. EL, 0.0 PROPOSED EXCAVATION And JETTIES PROFILE OF JETTIES SCALE FEET SOUTH INLET SENGEKONTACKET POND NOTE: EDGARTOWN, CHI OAK BLUFFS MASS. ELECTIONS AND IN FEET AND TENTED AND REFER TO THE PLANE OF MEAN LOW WATER MINUS FLURES DENOTE DEPTHS BELOW THE SIME PLANE. DEPARTMENT LE PUBLIC WURKS LE MASSACHUSETYS OIVISION SE WATERWAYS APRIL 1961 LOCATION OF PROPOSED WORK SHOWN IN KED. AUTOMO HER ERIAL APPROX 8 % 1590 C & TO LEE PISTOSTO OF ALONG BLACKES



ENEVATIONS ARE IN FEET AND TENTIO AND REFER TO THE PLANE OF MEAN LOW WATER MINUS FIGURES DENOTE BEPTHS BELOW THE SAME PLANE. LOCATION OF PROMOSED WORK SHOWN

DRIFUGED RESILENTS APPROX. 43, 500 C.Y.
TO BE DISPOSED OF REUNE SEAMES
ARM THE TO DRIFUGEN AREAS.

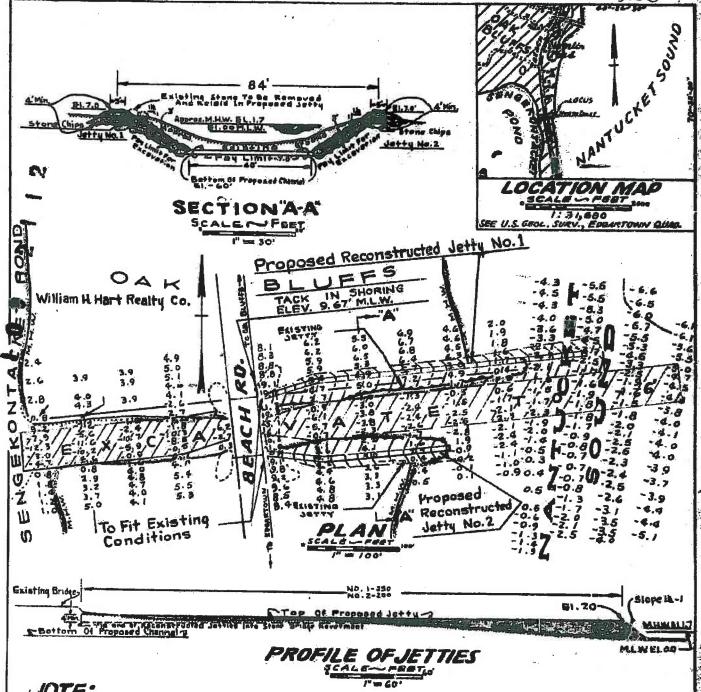
SENGEKONTACKET PONO

EOGARTOWN, AND OAK BLUFFS MASS.

APPLICATION BY DEPARTMENTOE PUBLIC WORKS SE MASSACHUSETTS DIVISION OF WATERWAYS APRIL 1961

> Robert B. Mars CHIEF WATERVIAYS ENGINEER

2-000-002-100 -000-002-200



NOTE:

ELEVATIONS ARE IN FEET AND TENTHS AND CLEVATIONS MEET NEET AND TONINS AND REPER TO THE PLANE OF MEAN LOW WATER. MINUS FIGURES DENOTE DEPTHS BELOW THE SAME PLANE LACATION OF PROPOSED WORK SHOWN IN RED. ENCAVATED MATERIAL APAROX.8500 C.Y. TO BE DISPOSED OF ALONG SHORE
ADMIENT TO EXCAVATED AREAS.

PROPOSED EXCAVATION AND JETTIES NORTH INLET

SENGEKONTACKET PONO OAK BLUFFS, MASSACHUSETTS

DEPARTMENT DE PUBLIC WORKS DE MASSACHUSETTS OIVISION SE WATERWAYS

APRIL 1961

Golot B. Moismon WATERWAYS ENGINEER

Section V

Tisbury



Section V - Community Findings - Town of Tisbury

COMMUNITY DESCRIPTION

The Town of Tisbury, including the Village of Vineyard Haven, consists of a land area of 6.56 square miles out of a total area of 8.05 square miles and had a population of 3,755 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 7.0 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Tisbury, there were 10 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 2 in Section V-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Tisbury

-	Total		S	tructure Condit	ion Rating		
Primary Structure (1)	Structures	Α	B	С	D	F	Total Length
Bulkhead / Seawall	2			2			2200
Revetment	2		1	1			1025
Breakwater	1		1				1200
Groin / Jetty	4	1	3				1250
Coastal Dune							
Coastal Beach	1		1				150
	10	1	6	3			5825

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Tisbury's case there are a total of 9 structures which would require approximately \$ 4.2 million to bring all the coastal structures to "A" Rating. There are no structures in the "D" or "F" classification that are in need of immediate replacement or repair.

BCE

V-A-1 Town of Tisbury

	Total		S	truç	ture Conditi	on Ra	ting		-	
Primary Structure (1)	Structures	Α	В		С		D	 F	To	tal Cost
Bulkhead / Seawall	2			\$	3,098,040				\$	3,098,040
Revetment	2		\$ 72,072	\$	255,255				\$	327,327
Breakwater	1		\$ 592,800						\$	592,800
Groin / Jetty	4		\$ 213,550						\$	213,550
Coastal Dune									\$	-
Coastal Beach	1		\$ 33,660						\$	33,660
	10	\$-	\$ 912,082	\$	3,353,295	\$	_	\$ 	\$	4,265,377

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Tisbury, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Tisbury

	Total		Structure Condition Rating						
Primary Structure (1)	Structures	Α	В		С	D		F	Total Cost
Town Owned	7		\$ 849,282	\$	2,838,495				\$ 3,687,777
Commonwealth of Massachusetts	1			\$	514,800				\$ 514,800
Federal Government Owned					_				\$ -
Unknown Ownership	2		\$ 62,800						\$ 62,800
	10	\$-	\$ 912,082	\$	3,353,295	\$	_	\$ 	\$ 4,265,377

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section V-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Tisbury's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

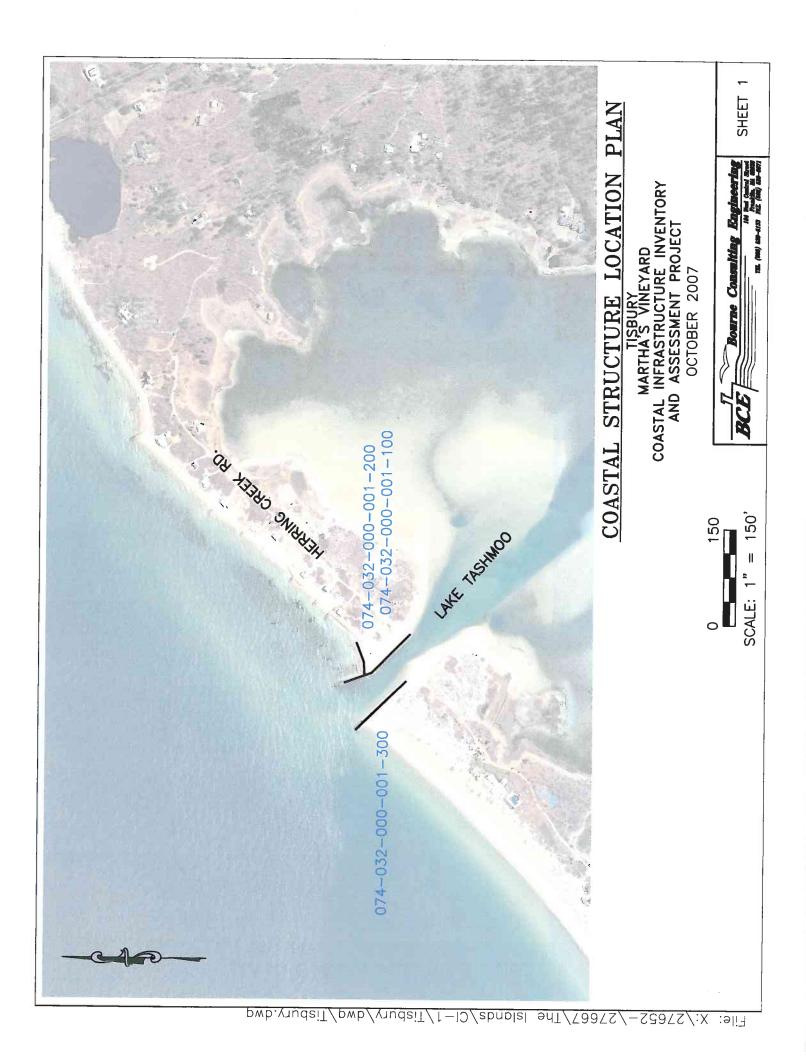


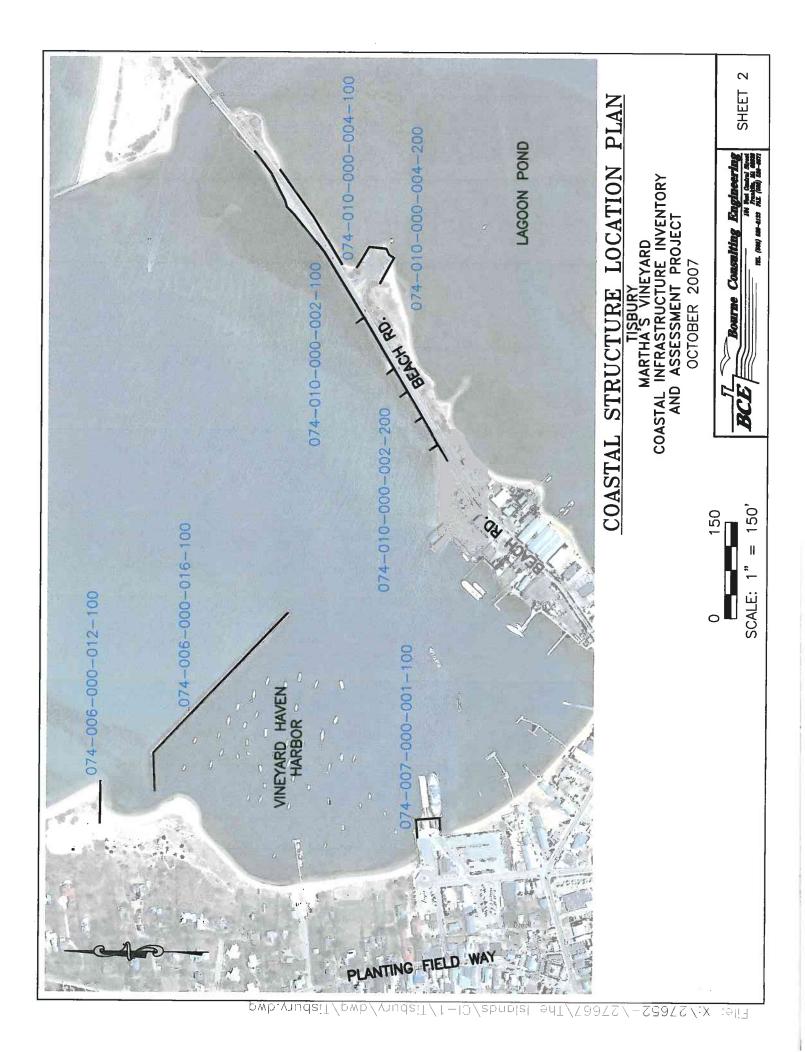
Section V - Tisbury

Part B

Structure Assessment Reports







Structure Assessment Form

Town: Tisbury
Structure ID: 074-006-000-012-100

Property Owner:		Location:		Date:			
Unknown		Osprey Lane	9		10/3/2007		
Presumed Structur	re Owner:	Based On Co	omment:	,			
Unknown					1,51,2 1304-1		
Owner Name:		Earliest Stru	cture Record:	Estimated Reconstru	Estimated Reconstruction/Repair Cost:		
Unknown		1940			\$62,800.00		
Length: Top E	Elevation: FIRM Map Zon	e: FIRM Map Eleva	ation:				
200	A	11	10				
Feet Feet I	NAVD 88	Feet No	GVD				
Primary Type:	Primary Material:	Primary Height:	-74				
Groin/ Jetty	Stone	10 to 15 Feet		DESCRIPTION OF THE PROPERTY OF			
Secondary Type:	Secondary Material:	Secondary Heig	ht:				
Structure Summar							
Placed stone groin	n forming a channel with the deta gns of stone movement. There i	ached breakwater in f	ront of it. The stone	es are approximately 4 feet by 3 fee	et by 2 feet in		
size. There are si	gris or storie movement. There is	s a beach adjacent to	the groin.				
Condition	В		Priority	1			
Rating	Good		Rating	None			
Level of Action	Minor		Action	Long Term Planning Considera	tions		
Description	Structure observed to exhibit v problems, superficial in nature to landform is present. Struct adequate to provide protection coastal storm with no damage to prevent / limit future deterior life of structure.	. Minor erosion ure / landform from a major . Actions taken	Description	No Inshore Structures or Resid Units Present	ential Dwelling		
Structure Image	es: S	Structure Docume	ents:				
074-006-000-012-1	100-PHO1A.JPG	MA-DCR	August 1940 Prop	osed Stone 074-006-000-0	12-100-DCR1A		
			, 10p		,,,		

Structure Assessment Form

Town: Tisbury
Structure ID: 074-006-000-016-100

Property Owner:		Location:			Date:
Local		Vineyard Hav	en Harbor		10/3/2007
Presumed Structure	e Owner:	Based On Cor	nment:		,
Local					
Owner Name:		Earliest Struct	ture Record:	Estimated R	econstruction/Repair Cost:
Tisbury		Unkown			\$592,800.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevat	ion:		
1200	V4		11		
Feet Feet N	IAVD 88	Feet NG	VD		
Primary Type:	Primary Material:	Primary Height:			
Breakwater	Stone	Over 15 Feet		the state of the s	
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
1					
Structure Summary	: ter protecti ng V ineyard Haven Harb				
Condition	on average. The structure has a d	og leg in the consti	uction at the insho Priority	re end of it.	
Rating	Good		Rating	Immediate / Highest Pri	iority
Level of Action	Minor		Action	Consider For Immediate	e Action Due to Public
Description	Structure observed to exhibit very problems, superficial in nature. Mit to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Description	Safety and Welfare Issu Critical Inshore Structur Potential for Infrastructu High Density Residentia of structure may warran stabilization as failure n loss of property and/or i impacted / 100 feet of s	res Present with ure Damage and/or al Dwellings Condition at emergency nay result in potential ife. (>10 dwellings
Structure Image 074-006-000-016-10 074-006-000-016-10	00-PHO1A.JPG	octure Documer	its:		

Structure Assessment Form

Town: Tisl

Structure ID: 074-007-000-001-100

Property Owner:			-		
State		Location:			Date:
State		Steamship V	Vharf		10/2/2007
Presumed Structu	re Owner:	Based On Co	omment:		
State					
Owner Name:		Farliagt Ctm.	cture Record:	Patient de	10
Steamship Author	itv	Unkown	cture Record:	Estimated	Reconstruction/Repair Cost: \$514,800.00
		19			\$J17,000.00
Length: Top I	Elevation: FIRM Map 2	Zone: FIRM Map Eleva	ation:		STEE
300		A11	10		
Feet Feet	NAVD 88	Feet No	GVD	20	The same of the sa
Primary Type:	Primary Material:	Primary Height:			
Bulkhead/ Seawal		Over 15 Feet			
Secondary Type:	Secondary Material:	v.avav.	ht:		
эссопасту туре.	Secondary Material.	Secondary Heig	iit.		The second
Character Comme	,	1		4	
Structure Summar	y: nd with a concrete cap. In fro	nt of the hulkhead is a n	ior for the form. Bo	bind the bullsheed is well	ing and building T
sheet pile has mod	derate corrosion.	nic of the buildlead is a p	nei ioi ule leily. De	ниш ине виклеай із рагк	ang and buildings. The
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action	Moderate		Action		ject Construction Listing
Description	Structure is sound but may deterioration, section loss, undermining, and/or scour. to withstand major coastal smoderate damage. Actions structure to provide full prot coastal storm and for exten structure. Moderate wind o landform exists. Landform to fully protect shoreline du storm. Actions taken to promaterial for full protection a	cracking, spalling, Structure adequate storm with little to taken to reinforce ection from major ding life of r wave damage to nay not be sufficient ring a major coastal vide addition	Description	for Infrastructure Dan	Structures with Potential nage and/or Moderate Owellings (1-10 dwellings of shoreline)
Structure Imag 074-007-000-001-1 074-007-000-001-1	00-PHO1A.JPG	Structure Docume	nts: Narch 21, 19 Plan	Accompanying 074-0	007-000-001-100-LIC1A

Structure Assessment Form

Town: Tisbury

Structure ID: 074-010-000-002-100

Property Owner:		Location:			Date:
Local		Beach Road			10/2/2007
Presumed Structur	e Owner:	Based On Co	omment:	•	
Local	CONTRACTOR OF THE PROPERTY OF				
Owner Name:		;I Farliest Struc	cture Record:	Estimated Do	acoatmustics (Danais Coats
Tisbury		1952	cture Record.	Esumated Re	construction/Repair Cost: \$2,583,240.00
and the supposed of the same o	levation: FIRM Map				
1900	141/15 00	A11	10		
	IAVD 88	Feet NO	GVD		F
Primary Type:	Primary Material:	Primary Height:		.000	
Bulkhead/ Seawall		5 to 10 Feet			
Secondary Type: Revetment	Secondary Material:		ht:	100	
Reveunent	Stone	5 to 10 Feet			
Structure Summan				p at the toe. The stones are	
feet on average. T Condition	here is no visible scour. Beh	ind the structure is Beach		11	
Condition Rating	Fair		Priority Rating	II Low Priority	
Level of Action	Moderate		Action	Future Project Considera	ation
Description	Structure is sound but may deterioration, section loss, undermining, and/or scour. to withstand major coastal moderate damage. Actions structure to provide full pro coastal storm and for exter structure. Moderate wind of landform exists. Landform to fully protect shoreline du storm. Actions taken to promaterial for full protection a	cracking, spalling, Structure adequate storm with little to taken to reinforce tection from major iding life of or wave damage to may not be sufficient ring a major coastal vide addition	Description	Inshore Structures Prese potential for Significant I	
Structure Image 074-010-000-002-1 074-010-000-002-1	00-PHO1A.JPG	Structure Docume		osed Seawall 074-010	-000-002-100-DCR1A

Structure Assessment Form

Town: Tisbury

Structure ID: 074-010-000-002-200

Property Owner:		Location:			Date:
Local		Beach Road	·	1000	10/2/2007
Presumed Structur	e Owner:	Based On Com	ment:		
Local	- <u> </u>			<u> </u>	
Owner Name:		Earliest Structu	ure Record:	Estimated Re	econstruction/Repair Cost:
Tisbury		Unkown			\$33,000.00
250	FIRM Map Zone: A11 NAVD 88	FIRM Map Elevation	10		
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	Under 5 Feet			
Secondary Type:	Secondary Material:	Secondary Height	<u>:</u>		
Structure Summan					
Set of five dumped	stone groins. There is minor stone	movement. There	is no visible scour	г.	
Condition	В		Priority	1	
Rating	Good		Rating	None	
Level of Action Description	Minor Structure observed to exhibit very		Action	Long Term Planning Co No Inshore Structures of	
	problems, superficial in nature. Mito landform is present. Structure adequate to provide protection from coastal storm with no damage. At to prevent / limit future deterioration life of structure.	/ landform m a major ctions taken	Description	Units Present	
Structure Image 074-010-000-002-2		icture Document	ts:		

Structure Assessment Form

Town: Tisbury
Structure ID: 074-010-000-004-100

			ocation:			Date:	
Local		1	agoon Pond		-		10/2/20
Presumed Structui	re Owner:	В	ased On Comment:			-	
Local	A STATE OF THE STA			·			
Owner Name:		y F	arliest Structure Reco	ard:	Ecti	mated Beconstru	ction/Repair Cost
Tisbury			Inkown			mateu Reconstru	\$72,072.00
ength: Top E	Elevation: FIRM Map	Zone: FIRM	1 Map Elevation:	Shirt			
600		V13	10				
Feet Feet f	NAVD 88	•	Feet NGVD				
rimary Type:	Primary Material:	Prim	ary Height:		+		
levetment	Stone	5 to	10 Feet			- Indian	
econdary Type:	Secondary Material:	Seco	ndary Height:	3000000			and the same
tructure Summar							
ımped stone ripi	rap with stone size 12 inches	down. The s	tructure protects the	slope of a road dir	ectly behir	nd it.	
Condition	В		Prior	itv I			
	Good		Rating	2	е		
Rating	0004						
Rating Level of Action Description	Minor Structure observed to exhi		Action Descr	n Long	nshore Str	nning Considerat uctures or Reside	
evel of Action	Minor	ture. Minor ero ructure / landf tion from a ma age. Actions t	Descr osion orm ajor aken	n Long		_	
evel of Action	Minor Structure observed to exhiproblems, superficial in natolandform is present. Stadequate to provide protections and storm with no dame to prevent / limit future determined.	ture. Minor ero ructure / landf tion from a ma age. Actions t	Descr osion orm ajor aken	n Long	nshore Str	_	
Jevel of Action Description	Minor Structure observed to exhiproblems, superficial in nat to landform is present. Stadequate to provide protect coastal storm with no dame to prevent / limit future detailed of structure.	ture. Minor ero	Descr orm ajor aken extend	n Long	nshore Str	_	
evel of Action Description ructure Image	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	ture. Minor ero ructure / landf tion from a ma age. Actions of erioration and	Description Descri	n Long	nshore Striss Present	uctures or Reside	ential Dwelling
evel of Action Description ructure Image	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	ture. Minor ero ructure / landf tion from a mage. Actions f erioration and Structure MA-DCR	Description Descri	n Long iption No II Units	nshore Stris Present	uctures or Reside	ential Dwelling
evel of Action Description ructure Image	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	Structure MA-DCR	Documents: September June 1989	Description No In Units 1 Boston Harbo	or Island	006-010-706-99	ential Dwelling 999-100-DCR1B
evel of Action Description ructure Image	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	Structure MA-DCR MA-DCR	Documents: September June 1989	1 Boston Harbo Pier Improve Map C - 1972	or Island ments -	006-010-706-99 006-010-706-99	999-100-DCR1D
Level of Action	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	Structure MA-DCR MA-DCR MA-DCR	Documents: September June 1989 1972 January 19	Description No Including Pier Improved Map C - 1972 Boston Harbo	or Island ments - Master or Island	006-010-706-99 006-010-706-99 006-010-706-99	999-100-DCR1B 999-100-DCR1C 999-100-DCR1D 999-100-DCR1E
Level of Action Description ructure Image	Minor Structure observed to exhiproblems, superficial in natto landform is present. Stadequate to provide protectoastal storm with no dame to prevent / limit future detalife of structure.	Structure MA-DCR MA-DCR	Documents: September June 1989	1 Boston Harbo Pier Improve Map C - 1972	or Island ments - 2 Master or Island	006-010-706-99 006-010-706-99 006-010-706-99 006-010-706-99	999-100-DCR1D

Structure Assessment Form

Town: Tisbury
Structure ID: 074-010-000-004-200

Property Owner:		Location:	A 100 W		Date:
Local		Lagoon Harbo	or Park		10/2/2007
Presumed Structure	e Owner:	Based On Con	nment:	,	
Local					
Owner Name:	A	Earliest Struct	ure Record:	Estimated Rec	construction/Repair Cost:
Tisbury		Unkown			\$255,255.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevati			
425	V13		10		
Feet Feet N	IAVD 88	Feet NGV	/D		
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Height	:		
Structure Summary					
is grouting at the t	etment at about a 1 on 3 slope. The op of the slope. There is a boat ran	e stones average 2 np in the structure.	feet by 1 foot by	1 foot in size. There is no vis	ible scour. The concrete
Condition	С		Priority	ı	
Rating	Fair		Rating	None	
Level of Action	Moderate		Action	Long Term Planning Con	siderations
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a nistorm. Actions taken to provide admaterial for full protection and exterior structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	No Inshore Structures or Units Present	Residential Dwelling
Structure Image 074-010-000-004-20		cture Documen	ts:		

Structure Assessment Form

Town: Tisbury
Structure ID: 074-032-000-001-100

Property Owner:		Locatio	on:		Date:		
Local		Herring	Creek			10/2/2007	
Presumed Structur	e Owner:	Based O	n Comment:		,		
Local							
Owner Name:		Earliest :	Structure Record:		Estimated Reconstruc	ction/Repair Cost:	
Tisbury		1969			\$33,660.0		
Length: Top E	levation: FIRM Map Zor	ne: FIRM Ma p E	Elevation:				
150	\	/14	13				
Feet Feet N	IAVD 88	Fee	et NGVD				
Primary Type:	Primary Material:	Primary Hei		·		11 28	
Coastal Beach	Sand	10 to 15 Fe	et			706	
Secondary Type:	Secondary Material:	Secondary I	Height:			3, 6	
		1					
Structure Summan	sand. The slope of the beach						
Rating Level of Action Description	Good Minor Structure observed to exhibit value problems, superficial in nature to landform is present. Structure adequate to provide protection coastal storm with no damage to prevent / limit future deterior life of structure.	e. Minor erosion ture / landform n from a major e. Actions taken	Rating Action Descript		Planning Considerati Structures or Reside ent		
Structure Image		Structure Docu	July 1969	Brangood Deads'	074 022 000 00	1 100 00515	
7-032-000-001-1		USACE	October 195	Proposed Dredging			
	<u>'</u>	MA-DCR	July 1946	Proposed Stone Proposed Channel	074-032-000-00		
	ŗ	, 2 2		J. roposed Grianier	10.4-002-000-00	- TOO-DOINIA	

Structure Assessment Form

Town: Tisbury
Structure ID: 074-032-000-001-200

Property Owner:	and an interest of the second	Location	n:		Date:
Local		Lake Tas			10/2/2007
Presumed Structur	re Owner:	Based On	Comment:		1
Local					
Owner Name:		f Endicat C	tructure Decemb	-	stimulad Danamaka ett. 19. 1. 6. 1
Tisbury	<u> </u>	1951	tructure Record:	- E	stimated Reconstruction/Repair Cost: \$0.00
					Ψ5.00
	levation: FIRM Map 2				
425 Foot Foot N	JAVD 90	V14	13		
	NAVD 88		NGVD		
Primary Type: Groin/ Jetty	Primary Material: Stone	Primary Heig 10 to 15 Fee	The second secon		
Secondary Type:	Secondary Material:	•		82	
Secondary Type.	Secondary Material:	Secondary H	eignt:		
Structure Summan	y ·	4			
stone length wide.	There is a beach and parking	or Lake Tashmoo. The group area behind the gro	ie stones are 3 fe bin.	et by 2 feet by 2 feet o	n average with a crest that is one
Condition	Α		Priority	1	
Rating	Excellent		Rating	None	
Level of Action	None Like new condition. Structu		Action	Long Term P	lanning Considerations
Description	withstand major coastal sto Stable landform (beach, du Adequate system exists to from major coastal storm.	rm without damage. ne or bank).	Description	Units Present	tructures or Residential Dwelling
Structure Image		Structure Docur			
074-032-000-001-2 074-032-000-001-2		USACE	-	Proposed stone	074-032-000-001-200-COE2A
J/4-032-000-001-2	00-PHO2B.JPG	MA-DCR MA-DCR		Proposed Channel Proposed Shore	074-032-000-001-200-DCR2A 074-032-000-001-200-DCR2B
		INVA-DCK	November 1	II IODOSCU SIIVIC	

Structure Assessment Form

Town: Tisbury
Structure ID: 074-032-000-001-300

Property Owner:			Location:			Date:
Local			Lake Tashmoo	<u>.</u>		10/2/2007
Presumed Structu	re Owner:		" Based On Com	ment:		
Local					<u> </u>	
Owner Name:			Earliest Structu	re Record:	Fstimated R	econstruction/Repair Cost:
Tisbury			1951			\$117,750.00
	Elevation: FIRI	4 Map Zone:	FIRM Map Elevation			
375	N.W. 00	V14	1	.3		
Feet Feet	NAVD 88		Feet NGV	D		
Primary Type:	Primary Mat	erial:	Primary Height:			
Groin/ Jetty	Stone		10 to 15 Feet			A
Secondary Type:	Secondary M	aterial:	Secondary Height:			
Structure Summar						
the groin is one si	tone length wide. The	re is a beach be	ehind the groin.	Priority	ntely 3 feet by 2 feet by 2 f	Set in Size. The desired
Rating	Good			Rating	None	
Level of Action	Minor			Action	Long Term Planning Co	onsiderations
Description	Structure observed to problems, superficial to landform is prese adequate to provide coastal storm with n to prevent / limit futulife of structure.	I in nature. Min nt. Structure / protection from o damage. Ac	or erosion landform a major tions taken	Description	No Inshore Structures of Units Present	or Residential Dwelling
					·	
Structure Imag			cture Document			
074-032-000-001-		USAC	CE Oct	ober 195 Prop	osed Stone 074-03	2-000-001-300-COE3A
074-032-000-001-3	300-PHO3B.JPG					
			,			

Section V - Tisbury

Part C

Structure Photographs

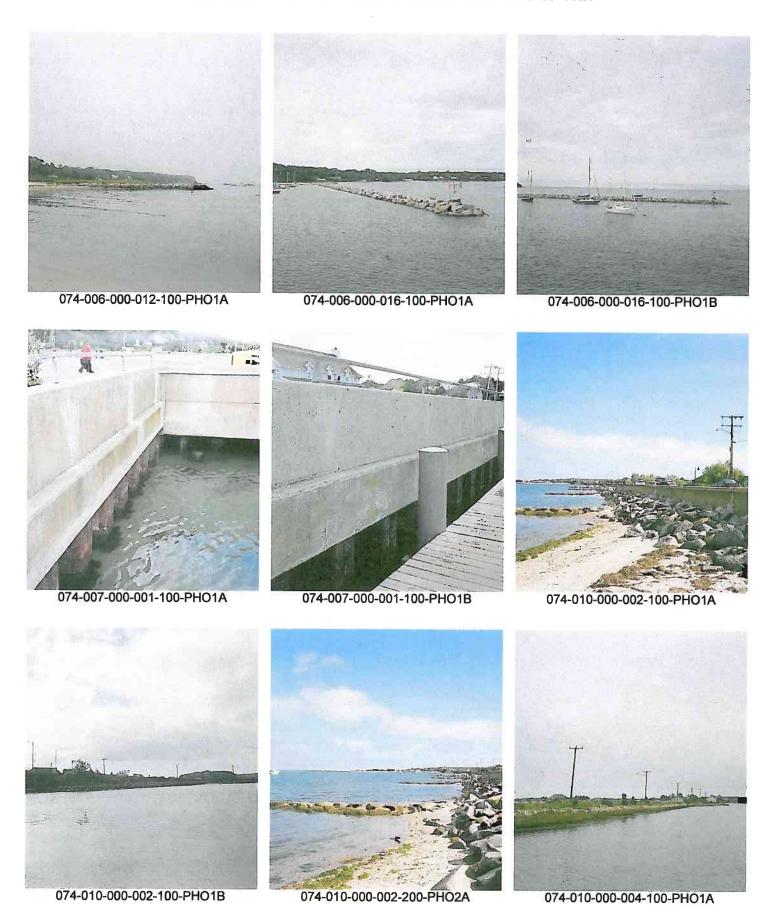


SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Boume Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: TISBURY

Structure Condition Photo at Time of Survey Description Structure Location Location - DIGITAL IMAGE October 2007 Date Municipality Tisbury Bourne
Consulting
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Consulting Contract/ Drawing Number 074-006-000-012-100-PHO1A.JPG 074-006-000-016-100-PHO1A.JPG 074-006-000-016-100-PHO1B.JPG 074-007-000-001-100 074-007-000-001-100-PHO1A.JPG 074-007-000-001-100-PHO1B.JPG 074-010-000-002-100 074-010-000-002-100-PHO1A.JPG 074-032-000-001-100 074-032-000-001-100-PHO1A.JPG 074-010-000-002-100-PHO1B.JPG 074-010-000-002-200-PHO2A.JPG 074-010-000-004-100 074-010-000-004-100-PHO1A.JPG 074-010-000-004-200-PHO2A.JPG 074-032-000-001-200-PHO2A.JPG 074-032-000-001-200-PHO2B.JPG 074-032-000-001-300-PHO3A.JPG 074-032-000-001-300-PHO3B.JPG **Document No** 074-006-000-012-100 074-006-000-016-100 074-006-000-016-100 074-007-000-001-100 074-010-000-002-100 074-010-000-002-200 074-032-000-001-300 074-010-000-004-200 074-032-000-001-200 074-032-000-001-200 074-032-000-001-300 BCE Structure No

Massachusetts Coastal Infrastructure and Assessment

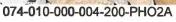


Massachusetts Coastal Infrastructure and Assessment







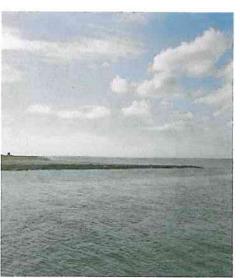


074-032-000-001-100-PHO1A

074-032-000-001-200-PHO2A







074-032-000-001-200-PHO2B

074-032-000-001-300-PHO3A

074-032-000-001-300-PHO3B

Section V - Tisbury

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Tisbury.xls

TOWN: TISBURY SOURCE: Town of Tisbury.xis LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

Description	
Location	
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Title	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
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Dосите	
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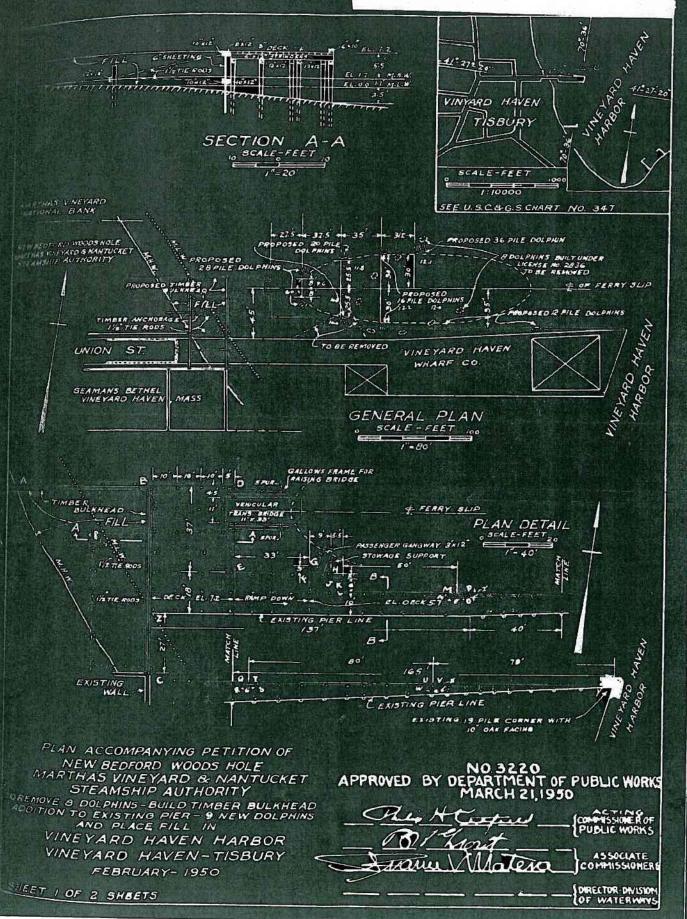
TOWN: TISBURY SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
074-006-000-012-100	074-006-000-012-100 074-006-000-012-100-DCR1A	681	MA-DCR	Tisbury	August 1940	Proposed Stone Jetty - Vineyard haven Harbor - Tisbury - DPW of MA Division of Waterways	-	Vineyard Haven Harbor	Jetty
074-010-000-002-100	074-010-000-002-100 074-010-000-002-100-DCR1A	1243	MA-DCR	Tisbury	June 1952	Proposed Seawall Repairs - Beach Road - Tisbury - Vineyard Haven, MA - DPW of MA Division of Waterways	1	Beach Road	Seawall Repairs
074-032-000-001-100	074-032-000-001-100 074-032-000-001-100-DCR1A	887	MA-DCR	Tisbury	July 1946	Proposed Channel Excavation and Riprap Protection at Tashmoo Pond - Tisbury - DPW of MA Division of Waterways	-	Tashmoo Pond	Riprap
074-032-000-001-200	074-032-000-001-200 074-032-000-001-200-DCR2A	887	MA-DCR	Tisbury	July 1946	Proposed Channel Excavation and Riprap Protection at Tashmoo Pond - Tisbury - DPW of MA Division of Waterways	2	Tashmoo Pond	Riprap
074-032-000-001-200	074-032-000-001-200 074-032-000-001-200-DCR2B	1837	MA-DCR	Tisbury	November 1957	Proposed Shore Prolection - Stone Groin - East November 1957 of Lake Tashmoo - DPW of MA Division of Waterways	1	East of Lake Таshтоо	Groin

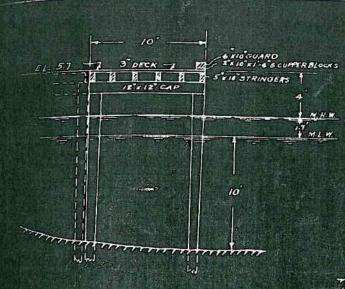
TOWN: TISBURY SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Contract/ Drawing Entity Number	Municipality	Date	Tftle	Sheets	Location	Description
074-007-000-001-100	74-007-000-001-100 074-007-000-001-100-LIC1A	3220	DEP	Tisbury	March 21, 1950	Plan Accompanying Petition of New Bedford Woods Hole Martha's Vinyard and Nantucket Steamship Authority To March 21, 1950 Remove 8 dolphins - Build Timber Bulkhead Addition to Existing Pler - 9 New Dolphins and Place Fill in Vinyard Haven Harbor	2	Vinyard Haven Harbor	Bulkheed

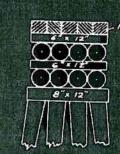
074-007-000-001-100



074-007-000-001-100



SECTION B-B SCALE-FEET



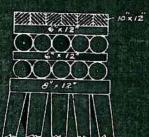
IG PILE DOLPHIN

SCALE-FEET,

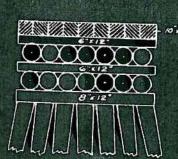


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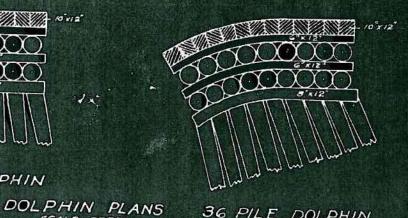


20 PILE DOLPHIN



28 PILE DOLPHIN

12 PILE DOLPHIN



36 PILE DOLPHIN

PLAN ACCOMPANYING PETITION OF NEW BEDFORD WOODS HOLE MARTHA'S VINEYARD & NANTUCKET STEAMSHIP AUTHORITY

LICENSE PLAN NO. 3220 APPROVED MARCH 21,1950

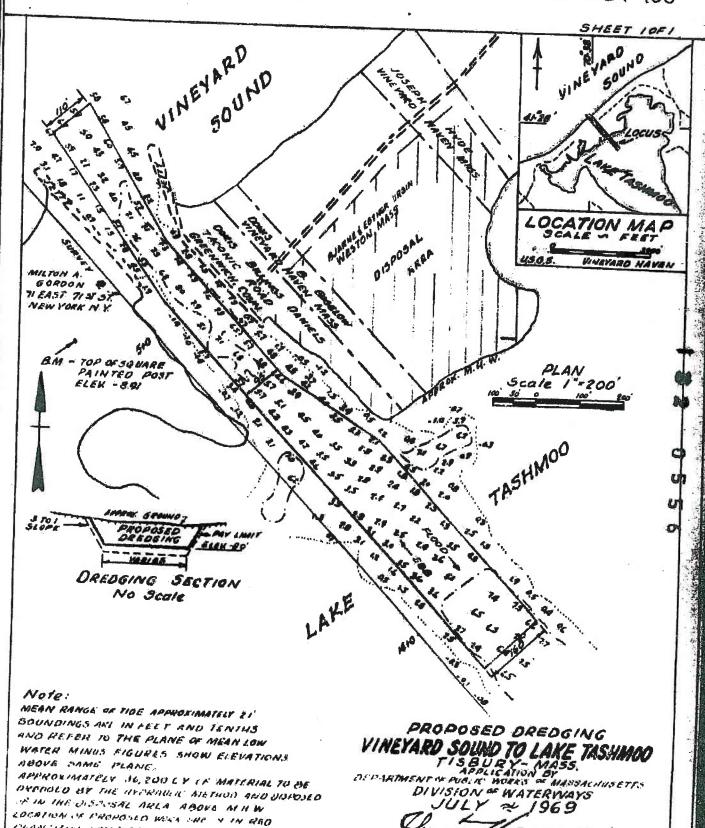
SHEET 2 OF 2 SHEETS

TOWN: TISBURY SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
074-032-000-001-100	074-032-000-001-100 074-032-000-001-100-COE1A	70-73	USACE	Tisbury	July 1969	Proposed Dredging Vineyard Sound to Lake Tashmoo - Tisbury, MA	-	Lake Tashmoo Inlet	Beach Renourishment
074-032-000-001-100	074-032-000-001-100 074-032-000-001-100-COE1B	00500	USACE	Tisbury	October 1951	Proposed Stone Jetties and Dredging In Vineyard Sound and Lake Tashmoo - Tisbury, Mass.	2	Lake Tashmoo Inlet	Jettles and Dredge Disposal on Beach
074-032-000-001-200	074-032-000-001-200 074-032-000-001-200-COE2A	02900	USACE	Tisbury	October 1951	Proposed stone Jettles and Dredging in Vineyard Sound and Lake Tashmoo - Tisbury, Mass.	2	Lake Tashmoo Inlet	Jettles and Dredge Disposal on Beach
074-032-000-001-300	074-032-000-001-300 074-032-000-001-300-COE3A	02900	USACE	Tisbury	October 1951	Proposed Stone Jettles and Dredging in Vineyard Sound and Lake Tashmoo - Tisbury, Mass.	2	Lake Tashmoo Inlet	Jetties and Dredge Disposal on Beach

GEONETTICS COMPLETED IS HAY.

074-032-000-001-100



ENGINEER FOR WATERWAYS

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014-032-000-001-100 05: 4151 074-032-000-001-200

074-032-000-001-300 SHEET I OF 2 VINEYARD SOUND 4.0 MAPSCALE See Sheet #2 1:00.000 for names of property owners SEE U.S.E. ÉG.S. CHART NO. 1209 NOTE PROPOSED DREDGING & JETTIES SHOWN IN RED SOUNDINGS ARE IN FEET & TENTHS AND SHOW DEPTHS BELOW THE PLANE OF MEAN LOW WATER.MINUS FIGURES SHOW ELEVATIONS ABOVE THE SAME PLANE. MATERIAL IS TO BE DREDGED BY THE HYDRAULIC METHOD AND IS TO BE DISPOSED OF ON THE VINEYARD SOUND SHORE, AS INDICATED ON THIS PLAN. QUANTITY TO BE SCALE IN FEET DREDGED IS APPROXIMATELY 23,000 CUBIC YARDS TO A DEPTH OF 5 FEET AT MEAN LOW WATER. 1:5000

PROPOSED STONE JETTIES & DREDGING
IN VINEYARD SOUND & LAKE TASHMOO
TISBURY, MASS.

DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS
DIVISION OF WATERWAYS

OCTOBER 1951

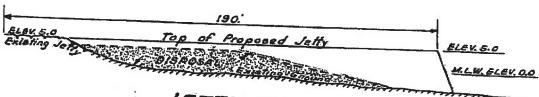
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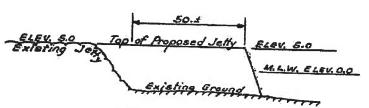
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SHEET 2 OF 2

074-032-000-001-200 074-032-000-001-300

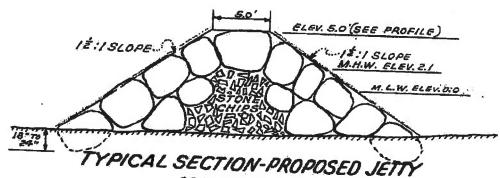


JETTY NO. 1



JETTY NO.2 & PROFILE OF PROPOSED JETTIES

SCALE IN FEET HOR 1'=40' 1"-20"



SCALE IN FEET

PROPERTY OWNERS NO. NAME & ADDRESS PARCEL NO.

- Joseph B. Russell, Cumberland Foreside, Portland, Me.
- Grace E. Allen, Hotel Shelton 49th & Lexington Ave., NYC 2 3
- Paymond C. Fuller, 21 Morrison Ave. Wakefield, Mass. 4
- 5
- Lucia M. M. Bride, 13,705 Shaker Blvd., Cleveland. O.

PROPOSED STONE JETTIES & DREDGING IN VINEYARD SOUND & LAKE TASHMOO

TISBURY MASS.

Lydia Hyde Est. Anne T Gugler Tr. 101 Park Ave. N.Y.C DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS

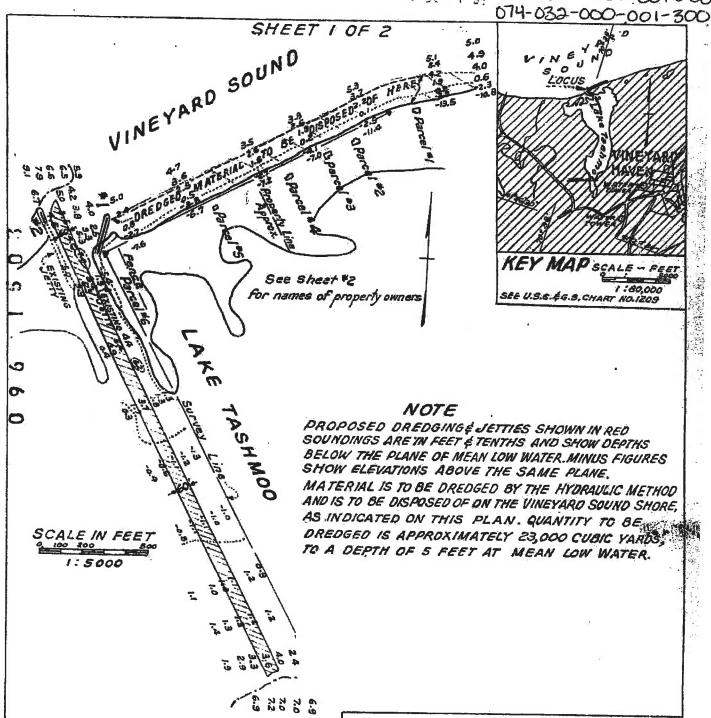
OCTOBER 1951

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PROPOSED STONE JETTIES & DREDGING
IN VINEYARD SOUND & LAKE TASHMOO
TISBURY, MASS.
APPLICATION BY

DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS

OCTOBER 1951

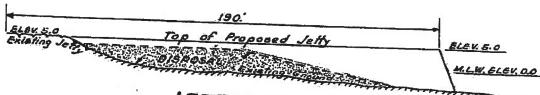
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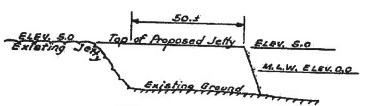
MASS. 074-032-000-001-100

SHEET 2 OF 2

074-032-000-001-200 074-032-000-001-300

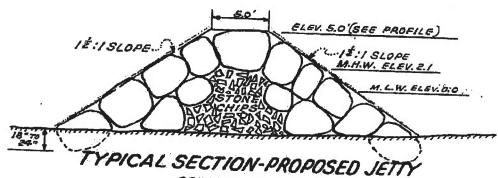


JETTY NO. 1



JETTY NO.2 & PROFILE OF PROPOSED JETTIES

SCALE IN FEET HOR VERT. 1"-20"



PROPERTY OWNERS NO. NAME & ADDRESS PARCEL NO.

- Joseph B. Russell, Cumberland Foreside, Portland, Me.
- Grace E. Allen, Hotel Shellon 49th & Lexington Ave., NY.C.
- paymond C. Fuller, 21 Morrison Ave. Wake field, Mass. 3 4

C

- 5
- Lucia M. MSBride, 13,705 Shaker Blvd., Cleveland. O.

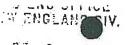
PROPOSED STONE JETTIES & DREDGING IN VINEYARD SOUND & LAKE TASHMOO TISBURY, MASS.

Lydia Hyde Est. Anne T Gugler Tr. 101 Park Ave. N.Y.C DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS

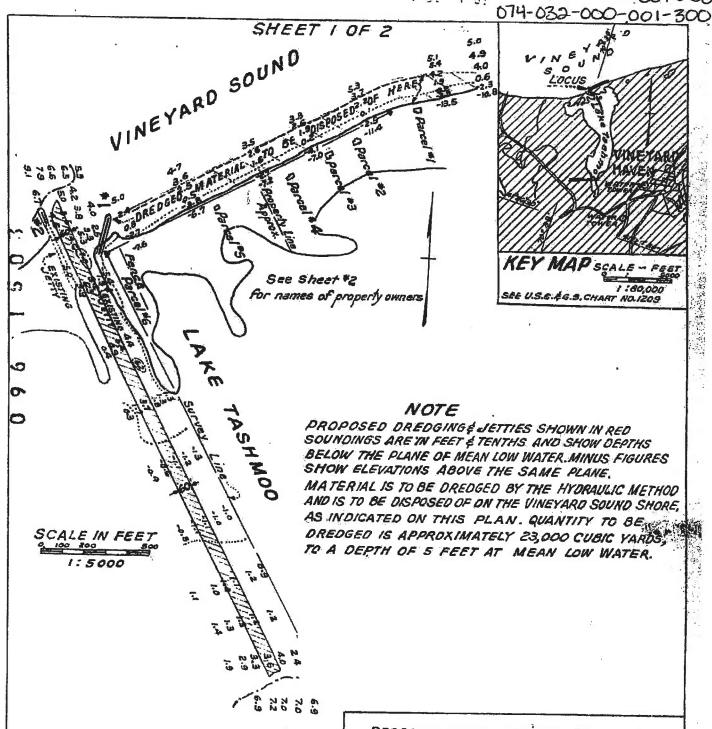
OCTOBER 1951

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09 1628



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PROPOSED STONE JETTIES & DREDGING IN VINEYARD SOUND & LAKE TASHMOO TISBURY, MASS.

DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS

OCTOBER 1951

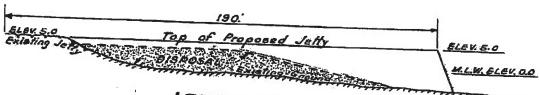
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6 2 9 Tor 25 S 50 5 1

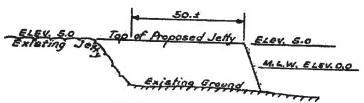
TSB. MASS. 074-032-000-001-100

SHEET 2 OF 2

074-032-600-001-200 074-032-000-001-300

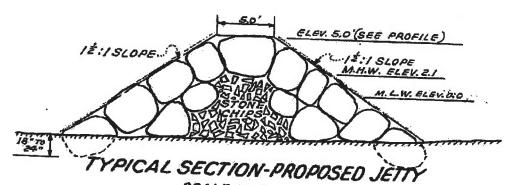


JETTY NO. 1



JETTY NO.2 & PROFILE OF PROPOSED JETTIES

SCALE IN FEET HOR 1"-20"



PROPERTY OWNERS NO. NAME & ADDRESS PARCEL NO.

- Joseph B. Russell, Cumberland Faraside, Portland, Me.
- Grace E. Allen, Hotel Shelton 49th &Lexington Ave. N.Y.C. 2 3
- Paymond C. Fuller, 21 Morrison Ave. Wake field, Mass. 4

0

- 5 Lydia Hyde Est., Anne T Gugler Tr. 101 Park Ave. N.Y.C. DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS
- Lucia M. M. Bride, 13,705 Shaker Blvd., Cleveland. O.

PROPOSED STONE JETTIES & DREDGING IN VINEYARD SOUND & LAKE TASHMOO

TISBURY MASS.

DIVISION OF WATERWAYS

OCTOBER 1951

Section VI

West Tisbury



Section VI - Community Findings - Town of West Tisbury

COMMUNITY DESCRIPTION

The Town of West Tisbury consists of a land area of 25.03 square miles out of a total area of 33.68 square miles and had a population of 2,467 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 7.8 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. According to the West Tisbury Conservation Commission, none of the structures along the Town's coast are publicly owned and/or maintained. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

SUMMARY

Though there were no publicly owned structures at the time of investigation, the project database can be updated as needed for future construction. The Town of West Tisbury's coastal structure information will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.



VI-A-1 Town of West Tisbury

Section VI - West Tisbury

Part B

Structure Assessment Reports

No Publicly Owned/Maintained Structures in the Town of West Tisbury



Section VI - West Tisbury

Part C

Structure Photographs

No Publicly Owned/Maintained Structures in the Town of West Tisbury



No Field Photographs for the Town of West Tisbury

TOWN: WEST TISBURY SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Boume Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

Entity Municipality Date Trite Sheets Location Description	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

Section VI - West Tisbury

Part D

Structure Documents

No Publicly Owned/Maintained Structures in the Town of West Tisbury



No Town Documents for the Town of West Tisbury.xls

TOWN: WEST TISBURY SOURCE: Town of West Tisbury.xls LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

	Description		
	5		
	Location		
	heets		
	9)	_	
	Title		
	_		
	Date		
	Municipality		
	Entity		
	Drawing	Number	
	int No		
	Оосише		
	Structure No		
	BCE		

No MA - DCR Documents for the Town of West Tisbury

TOWN: WEST TISBURY SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

Description	
ocation.	
-	
Sheet	-
Title	
Date	
Municipality	
Entity	
Drawing	Number
at No	
Dоситв	
Structure No	
	3 Title Sheets L

No MA - DEP Ch. 91 Documents for the Town of West Tisbury

TOWN: WEST TISBURY SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

ption	
Description	
Location	
Sheets	
el e	
Tie	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

No USACE - Permit Documents for the Town of West Tisbury

TOWN: WEST TISBURY SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract	Entity	Municipality	Date	Title	Sheets	Location	Description
		Number							

Section VII

Aquinnah



Section VII - Community Findings - Town of Aquinnah

COMMUNITY DESCRIPTION

The Town of Aquinnah consists of a land area of 5.37 square miles out of a total area of 40.78 square miles and had a population of 344 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 8.6 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Aquinnah, there were 2 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheet 1 in Section VII-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Aguinnah

	Total		Structure Cond	tion Rating		
Primary Structure (1)	Structures	A B	С	D D	F	Total Length
Bulkhead / Seawall						
Revetment	1			1		320
Breakwater						
Groin / Jetty	1	1				400
Coastal Dune						
Coastal Beach						
	2	1		1		720

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Aquinnah's case there are a total of 2 structures which would require approximately \$626,150 to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$500,550 would be required to upgrade the Town's coastal protection.

BCE

VII-A-1

STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Aguinnah

	Total		Struc	cture Con	dition I	Rating			
Primary Structure (1)	Structures	Α	 В	С		D	F	Tot	al Cost
Bulkhead / Seawall								\$	-
Revetment	1				\$	500,544		\$	500,544
Breakwater								\$	
Groin / Jetty	1		\$ 125,600					\$	125,600
Coastal Dune								\$	_
Coastal Beach								\$	-
	2	\$-	\$ 125,600 \$	-	\$	500,544 \$	-	\$	626,144

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Aquinnah the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Aguinnah

		Total		 St	ructi	ure Cond	lition F	Rating			
Primary Structure (1)	Str	uctures	Α	В		С		D	 F	Tot	al Cost
Town Owned		2		\$ 125,600			\$	500,544		\$	626,144
Commonwealth of Massachusetts										\$	-
Federal Government Owned										\$	-
Unknown Ownership										\$	-
		2	\$-	\$ 125,600	\$	-	\$	500,544	\$ -	\$	626,144

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section VII-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Aquinnah's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

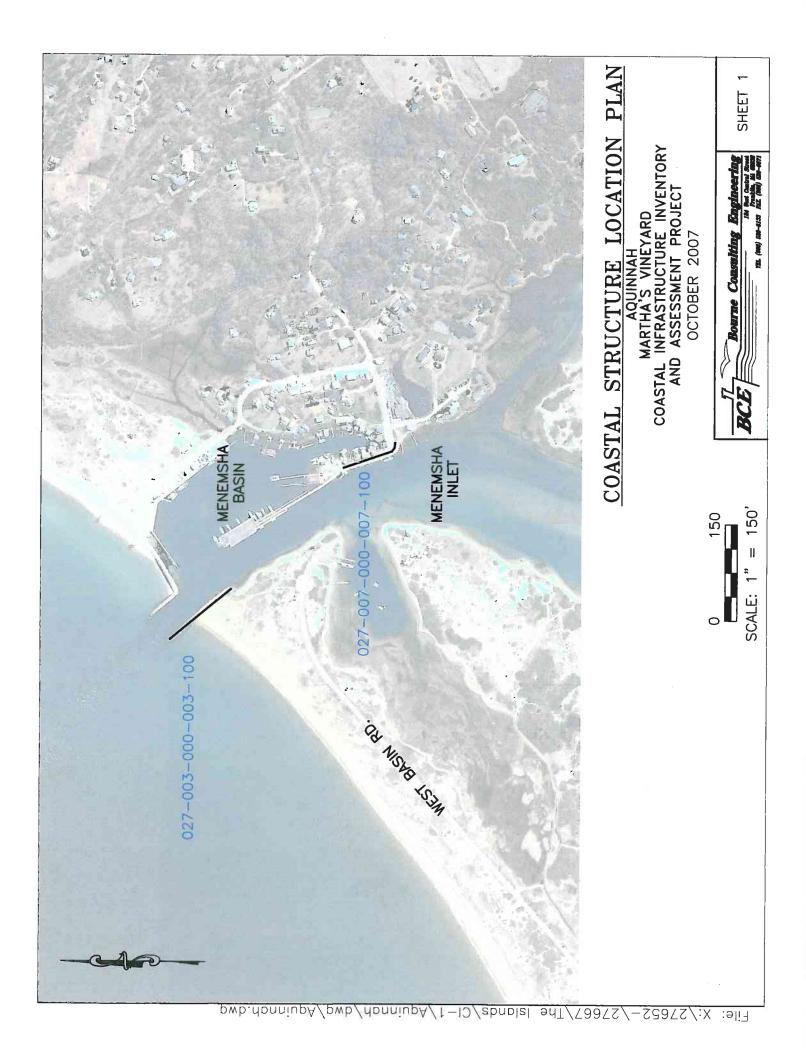


Section VII - Aquinnah

Part B

Structure Assessment Reports





Structure Assessment Form

Town: Aquinnah

Structure ID: 027-003-000-003-100

Property Owner:		Location:		Da	ite:
Local		Menemsha Inle	t		10/3/2007
Presumed Structur	e Owner:	Based On Comr	nent:	•	
Local					
Owner Name:		Earliest Structur	e Record:	Estimated Reco	nstruction/Repair Cost:
Aquinnah		1949			\$125,600.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevatio	n:	Property and the second	
400	VE	1	2		
Feet Feet N	88 DVAI	Feet NGV)		
Primary Type:	Primary Material:	Primary Height:	_		
Groin/ Jetty	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height:	_		
Structure Summary					Manifester 1
movement.	on the east side of the Menemsha I	nlet. The stones are	4 feet by 3 feet I	by 3 feet on average. Minor sign	gns of stone
C. True	D.				
Condition Rating	B Good		Priority	II Low Priority	
Level of Action	Minor		Rating Action	Future Project Consideration	on
Description	Structure observed to exhibit very		Description	Inshore Structures Present	with Limited
	problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	/ landform m a major ctions taken		potential for Significant Infr	astructure Damage
Characteristic Taxacca	Si.				
Structure Image 027-003-000-003-1		octure Document		osed Repairs to 027-003-0	00-003-100-DCR1A
1027-003-000-003-1	00-FITO IA.SFG INIA-	DCR Iviay	1949 100	osed Repairs to 1027-003-0	00-003-100-DCR1A

Structure Assessment Form

Town: Aquinnah

Structure ID: 027-007-000-007-100

Property Owner:		Location:		Date	2:
Local		Menemsha Inl	et		10/3/2007
Presumed Structure	e Owner:	Based On Com	ment:		
Local					
Owner Name:		Earliest Structu	ire Record:	Estimated Recons	cruction/Repair Cost:
Aquinnah		Unkown			\$500,544.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation	on:		
320	A9		11		1
Feet Feet N	IAVD 88	Feet NGV	D	1 A DE	
Primary Type:	Primary Material:	Primary Height:			25
Revetment	Stone	10 to 15 Feet		7776	
Secondary Type:	Secondary Material:	Secondary Height	de.		
Structure Summary	/:				
Condition	I the revetment. There is a dirt ro	ad behind the revetm	ent. Priority	1	
Rating	Poor		Rating	None	
Level of Action	Major Structure exhibits advanced leve		Action	Long Term Planning Conside	
Description	deterioration, section loss, crack undermining, and/or scour. Structure strong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be init taken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Action recreate landform to adequate limprotection from a major coastal storm.	ing, spalling, cture has and possible rm. Structure iated. Actions regain full storm. ened. e protection ins taken to nits for full	Description	No Inshore Structures or Res Units Present	
Structure Image 027-007-000-007-1		ructure Document	ts:		

Section VII - Aquinnah

Part C

Structure Photographs

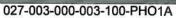


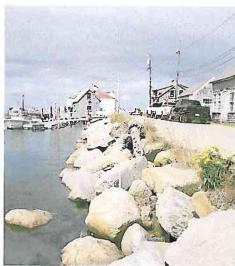
TOWN: AQUINNAH SOURCE: BOE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Englineering DATE OF RESEARCH: OCTOBER 2007

Document No	Contract/ Drawing Number	Entity Municipality	Municipality	Date	Title	Sheets	Location	Description
027-003-000-003-100 027-003-000-003-100-PHO1A.JPG		Bourne Consulting Aquinnah Engineering	Aquinnah	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
027-007-000-007-100 027-007-000-007-100-PHO1A.JPG		Boume Consulting Aquinnah Engineering	Aquinnah	October 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

Massachusetts Coastal Infrastructure and Assessment







027-007-000-007-100-PHO1A

Section VII - Aquinnah

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Aquinnah

TOWN: AQUINNAH SOURCE: Town of Aquinnah LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

Description	
Location	
heets	
ά	
Title	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
 BCE Structure No	

	Contract/							
Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
	Number							

TOWN: AQUINNAH SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

_	
Description	Stone Jetties
Location	Menemsha Inlet
Sheets	1
ТИв	Proposed Repairs to Stone Jetties - Menemeha Inlet - Chilmark and Gay Head - DPW of MA Division of Waterways
Date	May 1949
Municipality	Aquinnah
Entity	MA-DCR
Contract/ Drawing Number	1094
Document No	7-003-000-003-100 027-003-000-003-100-DCR1A
BCE Structure No	027-003-000-003-100

No MA - DEP Ch. 91 Documents for the Town of Aquinnah

TOWN: AQUINNAH SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

Cont

No USACE - Permit Documents for the Town of Aquinnah

TOWN: AQUINNAH SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No Document No Document No Municipality Date Title Sheets Location Description									
Drawing Entity Municipality Date Title SI			Contract				-		
Number	BCE Structure No	Document No	Drawing	Entity	Date	Title	Sheets	Location	Description
	1		Number						

Section VIII

Chilmark



Section VIII - Community Findings - Town of Chilmark

COMMUNITY DESCRIPTION

The Town of Chilmark consists of a land area of 19.14 square miles out of a total area of 34.7 square miles and had a population of 843 in the 2000 census. The Town is located on Martha's Vineyard of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 14.7 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Chilmark, there were 8 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheet 1 to Sheet 2 in Section VIII-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Chilmark

	Total	S	tructure Condi	tion Rating		
Primary Structure (1)	Structures A	В	С	D	F	Total Length
Bulkhead / Seawall	3	3				975
Revetment	3	1	2			525
Breakwater	1	1				470
Groin / Jetty	1	1				150
Coastal Dune						
Coastal Beach						
	8	6	2			2120

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Chilmark's case there are a total of 8 structures which would require approximately \$ 786,726 to bring all the coastal structures to "A" Rating. There are no structures in the "D" or "F" classification that are in need of immediate replacement or repair.



	Total		Si	ruct	ure Conditi	on Rati	ng			
Primary Structure (1)	Structures	Α	 В		С	D)	 F	Tot	al Cost
Bulkhead / Seawall	3		\$ 289,610						\$	289,610
Revetment	3		\$ 15,708	\$	314,028				\$	329,736
Breakwater	1		\$ 147,580						\$	147,580
Groin / Jetty	1		\$ 19,800						\$	19,800
Coastal Dune									\$	-
Coastal Beach									\$	-
	8	\$-	\$ 472,698	\$	314,028	\$		\$ 	\$	786,726

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Chilmark, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Chilmark

	Total		S	truct	ure Conditi	on Rat	ing		-	
Primary Structure (1)	Structures	A	 В		С]	<u></u>	F	Tot	al Cost
Town Owned	8		\$ 472,698	\$	314,028				\$	786,726
Commonwealth of Massachusetts					,				\$	
Federal Government Owned									\$	_
Unknown Ownership									\$	-
	8	\$-	\$ 472,698	\$	314,028	\$	-	\$ 	\$	786,726

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section VIII-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Chilmark's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

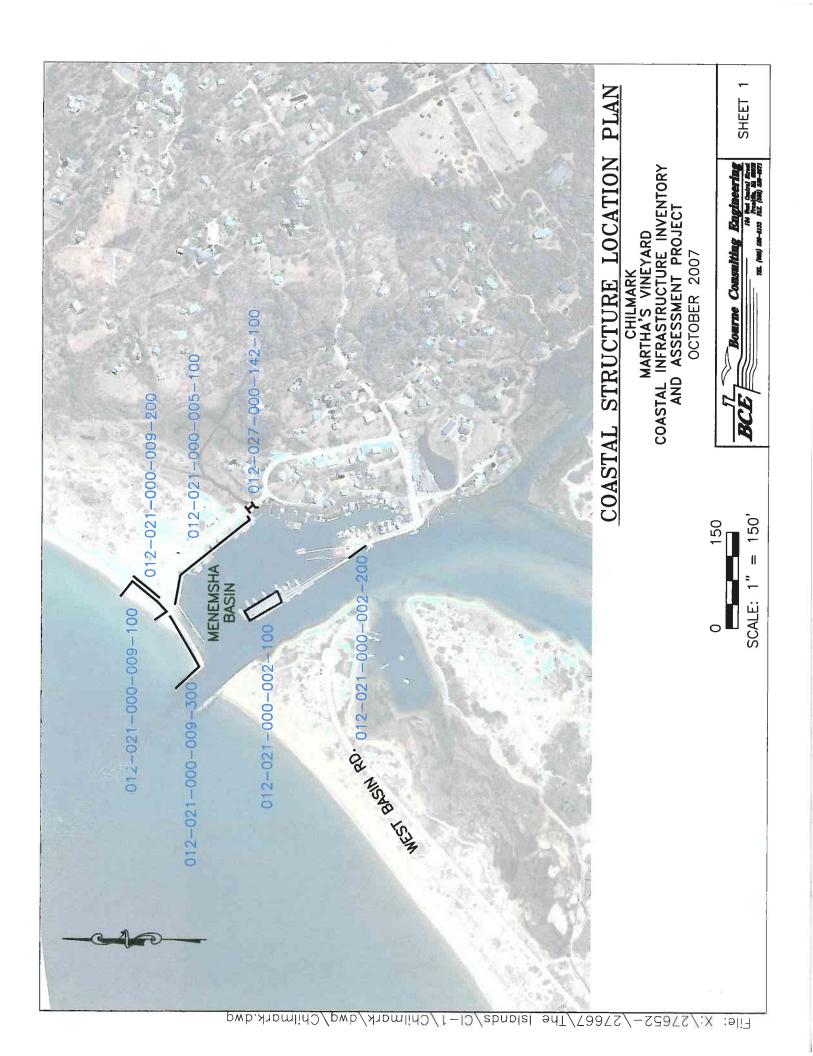


Section VIII - Chilmark

Part B

Structure Assessment Reports







Structure Assessment Form

Town: Chilmark

Structure ID: 012-021-000-002-100

Property Owner:		Location:		Date:	
Local		Menemsha (Creek		10/3/2007
Presumed Structure	e Owner:	Based On Co	omment:	,	
Local					
Owner Name:		Farliest Stru	cture Record:	Estimated Reconstru	ction/Penair Cost
Chilmark		Unkown	cture Record.	Lisumated Reconstitution	\$68,640.00
	The state of the s				
Length: Top E	levation: FIRM Map	Zone: FIRM Map Eleva	ation:		J.
1	IAVD 88	Feet N		1	
				A Company	al acceptance
Primary Type: Bulkhead/ Seawall	Primary Material: Steel	Primary Height: Over 15 Feet			
Secondary Type:	Secondary Material:	-	ht		N-
occoridary Type.	Secondary Materials	Secondary neig	110.		in the
Structure Summary	· /:				
Sheet pile bulkhead for fishing vessels.	d with steel cap. There is m	nor corrosion at the tida	zone. Above is par	king and storage for fishing gear. A	ttached is floats
Condition	В		Post out to		
Rating	Good		Priority Rating	None	
Level of Action	Minor		Action	Long Term Planning Considerat	ions
Description	Structure observed to exhi problems, superficial in nat to landform is present. St adequate to provide protect coastal storm with no dame to prevent / limit future detailife of structure.	ure. Minor erosion ructure / landform tion from a major age. Actions taken	Description	No Inshore Structures or Reside Units Present	ential Dwelling
Novel distribution of the state					
Structure Image 012-021-000-002-1		Structure Docume		osed Bulkhead 012-021-000-00	. 100 DOD11
012-021-000-002-1				osed Bulkhead 012-021-000-00 Accompanying 012-021-000-00	
			-, ,	4-13-13-13-13-13-13-13-13-13-13-13-13-13-	

Structure Assessment Form

Town: Chilmark
Structure ID: 012-021-000-002-200

Property Owner:			Location:		Da	ate:
Local			Menemsha C	reek		10/3/2007
Presumed Structur	e Owner:		Based On Cor	nment:	,	
Local						
Owner Name:			Earliest Struct	ture Record:	Estimated Reco	onstruction/Repair Cost:
Chilmark			Unkown			\$60,060.00
	levation:	FIRM Map Zone:	FIRM Map Elevat			
100		A9		11		
	IAVD 88		Feet NG	VD		
Primary Type:		y Material:	Primary Height:			
Revetment	Stone		5 to 10 Feet			
Secondary Type:	Second	ary Material:	Secondary Heigh	<u>t:</u>		
1	1		1			
Structure Summan		mher hridge connect	ted to a bulkhood	The ctones are 2.4	feet by 2 feet by 2 feet on aver	7
moderate stone m	overnent and sh	ifting.	ed to a buildlead.	The stones are 3	reet by 2 reet by 2 reet on aver	age. There is
Condition	С					
Condition Rating	Fair			Priority	l None	
Level of Action	Moderate			Rating Action	Long Term Planning Consi	iderations
Description	deterioration, sundermining, a to withstand m moderate dam structure to procoastal storm structure. Modelandform exist to fully protect storm. Actions	ound but may exhibit section loss, cracking and/or scour. Structuration coastal storm wage. Actions taken to ovide full protection and for extending life derate wind or waves. Landform may not aken to provide ad I protection and extending a	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	No Inshore Structures or R Units Present	
Structure Image			cture Documen	nts:		

Structure Assessment Form

Town: Chilmark

Structure ID: 012-021-000-005-100

		Location:			Date:	
Local		Menemsha (Creek			10/3/2007
Presumed Structure	e Owner:	Based On Co	mment:		pa .	
Local				· · · · · ·	<u> </u>	
Owner Name:		Earliest Stru	cture Record:	Fo	timated Reconstructi	on/Renair Cost
Chilmark		Unkown		Ē	amatea Reconstract	\$205,920.00
	levation: FIRM Map Zo	ne: FIRM Map Eleva	ation:			
600		A9	10			
Feet Feet N	NAVD 88	Feet No	GVD	1		
rimary Type:	Primary Material:	Primary Height:				
Bulkhead/ Seawall	Steel	Over 15 Feet				
econdary Type:	Secondary Material:	Secondary Heig	ht:			
	1				111111	
tructure Summary						
neet plie Duiknea(d with steel cap. There is mino	or corrosion at the tidal	zone. Above is	a parki ng lot. Attach	ed is a fixed pier.	
Condition	В		Priority	1		
Rating	Good		Rating	None		
level of Action Description	Minor Structure observed to exhibit		Action		anning Consideration	
1	problems, superficial in natural to landform is present. Structure adequate to provide protection coastal storm with no damage to prevent / limit future deterior.	ture / landform n from a major e. Actions taken	Description	Units Present	ructures or Resident	
	life of structure.					
	life of structure.	Structure Docume		roposed Groins and	012-021-000-005-	100-COE1A
2-021-000-005-1	es:	USACE	May 2, 1974 P	roposed Groins and	012-021-000-005- 012-021-000-005-	
tructure Image 12-021-000-005-10 12-021-000-005-10	es: 00-PHO1A.JPG 00-PHO1B.JPG	USACE NA-DCR	May 2, 1974 P February 19 P		•	100-DCR1A

Structure Assessment Form

Town: Chilmark

Structure ID: 012-021-000-009-100

Key: community-map-block-parcel-structure

Rememsha Beach 10/3/2007	Property Owner:		Location:		Date	3:
Owner Name: Chilmark Earliest Structure Record: Chilmark Unkown Estimated Reconstruction/Repair Cost: Unkown S19,800.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 12 Feet RoVD Primary Type: Primary Material: Secondary Type: Secondary Type: Secondary Material: Secondary Height: Structure Summary: The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet with a crest of one stone width wide. Condition Rating Good Rating None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present Structure to provide protection from a major coasial short within to damage. Actions taken to prevent/ aimst future deterioration and extend life of structure. Structure Images: Structure Images	Local	-	Menemsha	Beach		10/3/2007
Owner Name: Chilmark Chilmark	Presumed Structur	re Owner:	Based On (Comment:	,	
Chilmank Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 150	Local					
Chilmark	Owner Name:		Earliest Str	ucture Record:	Estimated Recons	truction/Repair Cost:
Feet Feet NAVD 88 Feet NGVD Frimary Type: Primary Material: Primary Height: Under 5 Feet	Chilmark		Unkown			
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Under 5 Feet Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary H	- regionally	levation: FIRM Map	Zone: FIRM Map Ele	vation:		
Primary Type: Primary Material: Stone Under 5 Feet Secondary Type: Secondary Material: Secondary Height: The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet with a crest of one stone width wide. Condition B	150		V9	12		
Structure Summary: Secondary Material: Secondary Height: S	Feet Feet N	NAVD 88	Feet N	NGVD		
Structure Summary: The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet with a crest of one stone width wide. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: Structure Images: Structure Documents: Diz-021-000-009-100-PHO1A.JPG USACE May 2, 1974 Proposed Groins and O12-021-000-009-100-PHO1B.JPG		Primary Material:	Primary Height	t:		
Structure Summary: The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet with a crest of one stone width wide. Condition B Rating Good Rating Level of Action Minor Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Images: Structure Documents: USACE May 2, 1974 Proposed Groins and 012-021-000-009-100-COE1A	Groin/ Jetty	Stone	Under 5 Feet			
The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet by 2 feet with a crest of one stone width wide. Condition B	Secondary Type:	Secondary Material:	Secondary Hei	ght:	The state of the s	5
The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet by 2 feet with a crest of one stone width wide. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Action staken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: USACE May 2, 1974 Proposed Groins and 012-021-000-009-100-PHO1B.JPG The stones are 3 feet by 2 feet by 2 feet with a crest of overal 3 feet by 2 feet by 4 feet by 2 feet by 4 feet by 4 feet by 2 feet by 4 feet by 4 feet by 2 feet						No. of the last of
The set of placed stone groins has minor stone movement. There is no visable scour. The stones are 3 feet by 2 feet by 2 feet with a crest of one stone width wide. Condition B Rating Good Rating None Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Action staken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: USACE May 2, 1974 Proposed Groins and 012-021-000-009-100-PHO1B.JPG The stones are 3 feet by 2 feet by 2 feet with a crest of overal 3 feet by 2 feet by 4 feet by 2 feet by 4 feet by 4 feet by 2 feet by 4 feet by 4 feet by 2 feet	Structure Summar	y:				
Rating Good Rating None Level of Action Minor Action Long Term Planning Considerations Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents: USACE May 2, 1974 Proposed Groins and 012-021-000-009-100-COE1A 012-021-000-009-100-PHO1B.JPG				n : ''		
Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Images: Structure Documents: O12-021-000-009-100-PHO1A.JPG USACE May 2, 1974 Proposed Groins and O12-021-000-009-100-COE1A					l None	
Structure Documents: Structure Images: Structure Images: Structure Documents:	***			• • •		erations
012-021-000-009-100-PHO1A.JPG	Description	problems, superficial in nat to landform is present. St adequate to provide protec coastal storm with no dama to prevent / limit future dete	rure. Minor erosion ructure / landform tion from a major age. Actions taken	Description		idential Dwelling
012-021-000-009-100-PHO1A.JPG						
012-021-000-009-100-PHO1A.JPG						
012-021-000-009-100-PHO1B.JPG						
			JUSACE	May 2, 1974 Prop	osed Groins and 012-021-000	-009-100-COE1A
712-021-000-003-100-MICUTO						
	J 14-02 1-000-009-1	OU-PHOTO.JPG				

Structure Assessment Form

Town: Chilmark
Structure ID: 012-021-000-009-200

Key: community-map-block-parcel-structure

Property Owner:		Location:		Date:
Local		Menemsha Be	ach	10/3/2007
Presumed Structure	e Owner:	Based On Com	nment:	P
Local	, , .,			
Owner Name:		" Earliest Structo	ure Record:	Estimated Reconstruction/Repair Cost:
Chilmark		Unkown		\$15,050.00
	levation: FIRM Map Zone:	FIRM Map Elevati		
175	V9	1	12	
Feet Feet N	AVD 88	Feet NGV	/D	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Wood	Under 5 Feet		
Secondary Type:	Secondary Material:	Secondary Height	:	
	J	Į.		
Structure Summary				
There is no visable	scour or erosion.	iot and the beach.	i ne bulknead is ap	pproximately 2 feet higher than grade of the beach.
Condition	В		Priority	1
Rating	Good		Rating	None
Level of Action	Minor		Action	Long Term Planning Considerations
Description	Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.	inor erosion / landform om a major ctions taken	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Image	Charles Charles	ustura Daguman		
Structure Image 012-021-000-009-2		octure Document		osed Bulkhead 012-021-000-009-200-DCR2A
0.1 02. 000 000 2	oo i noblano	por pe	bidary 19 ji top	1012-021-000-009-200-DCR2A

Structure Assessment Form

Town: Chilmark
Structure ID: 012-021-000-009-300

			·	Key: community-map-blo	ock-parcel-structure
Property Owner:	Y lot in the second sec	Lc	cation:	Date:	
Local	r jake jakes tire		enemsha Inlet	- Julie	10/3/2007
Presumed Structur	e Owner:	, Ba	sed On Comment:	,	
Local			- Comment		
ı Owner Name:		50	rliest Structure Record:	F-11: 1 1 P	
Chilmark			kown	Estimated Reconstruc	\$147,580.00
		<u> </u>			
Length: Top E	levation: FIRM Ma	v9 FIRM	Map Elevation:		
1	NAVD 88	13	Feet NGVD		
Primary Type:	Primary Material	· Drima			
Breakwater	Stone		y Height: 15 Feet		
Secondary Type:	Secondary Materi	al: Secon	dary Height:	The state of the s	EW SEE
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			dary maight	76	
Structure Summan	y:				
movement. The s	on the west side of Mener tructure also protects the	nsha Inlet. The s boats and building	tones are 4 feet by 3 feet by behind it.	3 feet on average. There are minor	signs of stone
Condition	В		Priority	II.	
Rating	Good		Rating	Low Priority	
Level of Action	Minor	.h. 16. 16	Action	Future Project Consideration	
Description	Structure observed to exproblems, superficial in a to landform is present. adequate to provide protocoastal storm with no dat to prevent / limit future diffe of structure.	nature. Minor eros Structure / landfor ection from a maj mage. Actions ta	m or ken	Inshore Structures Present with potential for Significant Infrastru	
Structure Image		Structure	Documents:		
)12-021-000-009-3		MA-DCR	May 1949 Pro	posed Repairs to 012-021-000-00	9-300-DCR3A
012-021-000-009-3	00-PHO3B.JPG				
			•		

Structure Assessment Form

Town: Chilmark

Structure ID: 012-027-000-142-100

Key: community-map-block-parcel-structure

Property Owner:		Location:			Date:
Local		Basin Road			10/3/2007
Presumed Structur	e Owner:	Based On Co	mment:		
Local			<u>.</u> `		
Owner Name:		Earliest Struc	ture Record:	Estimated I	Reconstruction/Repair Cost:
Chilmark		Unkown			\$15,708.00
	levation: FIRM Map Zone:				
100	A		9		4
Feet Feet N	NAVD 88	Feet NG	VD	Show we strict to	
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	10 to 15 Feet		一下手 手。"	
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
Structure Summan	/:				
Dumped riprap at	the the abutments of the bridge o	n Basin Road. The s	tones are 2 feet by	1 foot by 1 foot on average	je.
Condition	В		Priority	I	
Rating	Good		Rating	None	
Level of Action	Minor		Action	Long Term Planning C	onsiderations
Description	Structure observed to exhibit very problems, superficial in nature. It to landform is present. Structure adequate to provide protection ficoastal storm with no damage. It to prevent / limit future deterioral life of structure.	Ainor erosion e / landform om a major Actions taken	Description	Units Present	or Residential Dwelling
Structure Image		ructure Documer			
012-027-000-142-1	00-PHO1A.JPG DE	P D	ecember 1 Plan	Accompanying 012-02	27-000-142-100-LIC1A
		,			

Structure Assessment Form

Town: Chilmark
Structure ID: 012-035-000-030-100

Key: community-map-block-parcel-structure

Property Owner:		Location:		Date:
Local		Squibnocket B	each	10/3/2007
Presumed Structure	e Owner:	Based On Com	ment:	ď
Local	<u></u>			
Owner Name:		Earliest Structu	ure Record:	Estimated Reconstruction/Repair Cost:
Chilmark		Unkown		\$253,968.00
The second second	levation: FIRM Map Zone:	FIRM Map Elevati	on:	
325				
Feet Feet N	IAVD 88	Feet NGV	Ď	
Primary Type:	Primary Material:	Primary Height:	m Min.	
Revetment	Stone	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height	<u>: </u>	
1				
visable under-layer	ment set at a 1 on 1.5 slope. The s s. In front is a sandy beach. There	tone size is 5 feet b e is no visible scour.	There is minor to	on average. There is moderate stone movement and o moderate erosion behind.
Condition	C Fair		Priority	l M
Rating Level of Action	Moderate		Rating Action	None Long Term Planning Considerations
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection of coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a mostorm. Actions taken to provide admaterial for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Image 012-035-000-030-1		cture Document	is:	

Section VIII - Chilmark

Part C

Structure Photographs



SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: CHILMARK

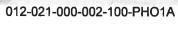
Structure Condition Photo at Time of Survey Structure Condillon Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Location Sheets _ DIGITAL IMAGE Title October 2007 Date Municipality Chllmark Chilmark Chilmark Chilmark Chllmark Chilmark Chilmark Chilmark Consulting
Engineering
Bourne
Consulting
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering
Bourne
Consulting
Engineering
E Entity Contract/ Drawing Number 012-021-000-002-100-PHO1A.JPG 012-021-000-002-100-PHO1B.JPG 012-035-000-030-100-PHO1A.JPG 012-021-000-002-200 012-021-000-002-200-PHO2A.JPG 012-021-000-005-100-PHO1A.JPG 012-021-000-005-100-PHO1B.JPG 012-021-000-009-100-PHO1A.JPG 012-021-000-008-100 012-021-000-008-100-PHO1B.JPG 012-021-000-008-100-PHO1C.JPG 012-021-000-008-200-PHO2A.JPG 012-021-000-008-300-PHO3A.JPG 012-021-000-009-300-PHO3B.JPG 012-027-000-142-100-PHO1A.JPG Document No 012-021-000-002-100 012-021-000-002-100 012-021-000-005-100 012-021-000-005-100 012-021-000-009-100 012-021-000-008-100 012-021-000-009-200 012-021-000-009-300 012-027-000-142-100 012-021-000-009-300 012-035-000-030-100 BCE Structure No

Massachusetts Coastal Infrastructure and Assessment









012-021-000-002-100-PHO1B

012-021-000-002-200-PHO2A

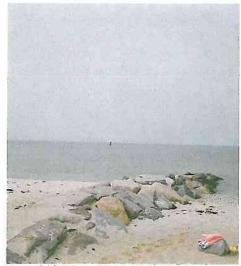






012-021-000-005-100-PHO1A

012-021-000-005-100-PHO1B





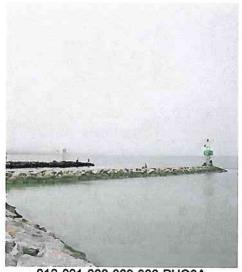


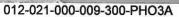
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012-021-000-009-100-PHO1C

012-021-000-009-200-PHO2A

Massachusetts Coastal Infrastructure and Assessment



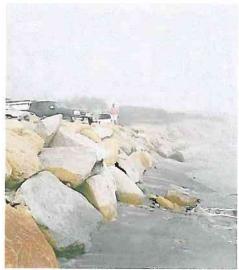




012-021-000-009-300-PHO3B



012-027-000-142-100-PHO1A



012-035-000-030-100-PHO1A

Section VIII - Chilmark

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Chilmark

TOWN: CHILMARK SOURCE: Town of Chilmark LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

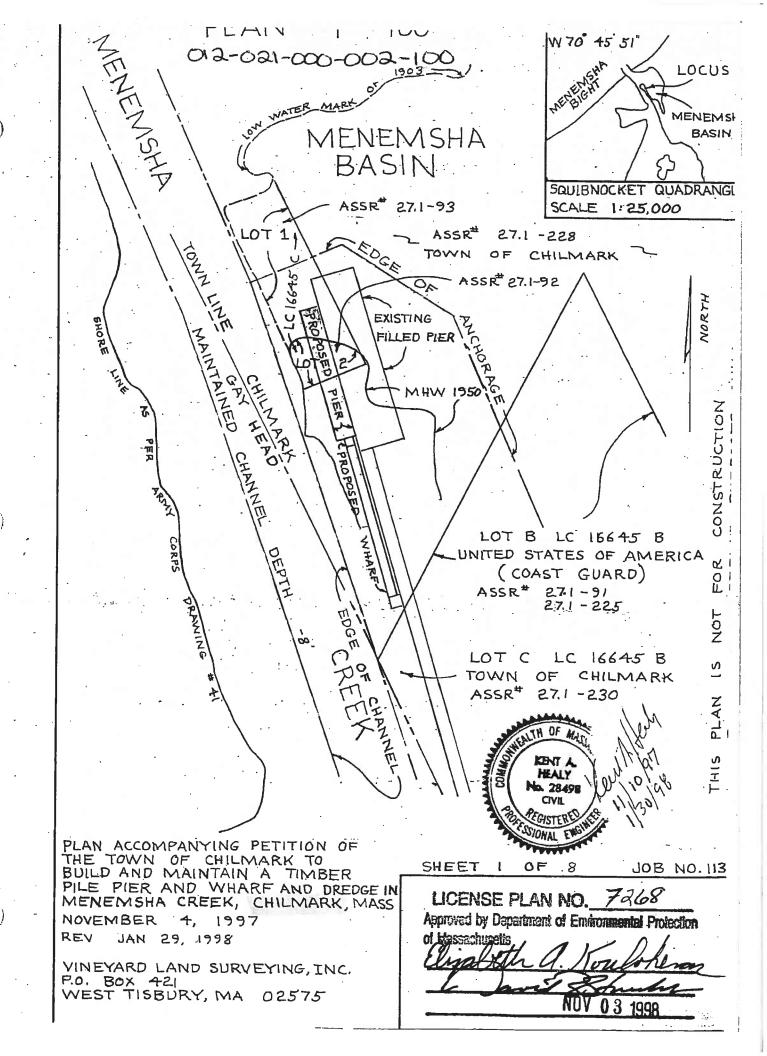
Description	
Į.	
ation	
Loc	
Sheets	
Title	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

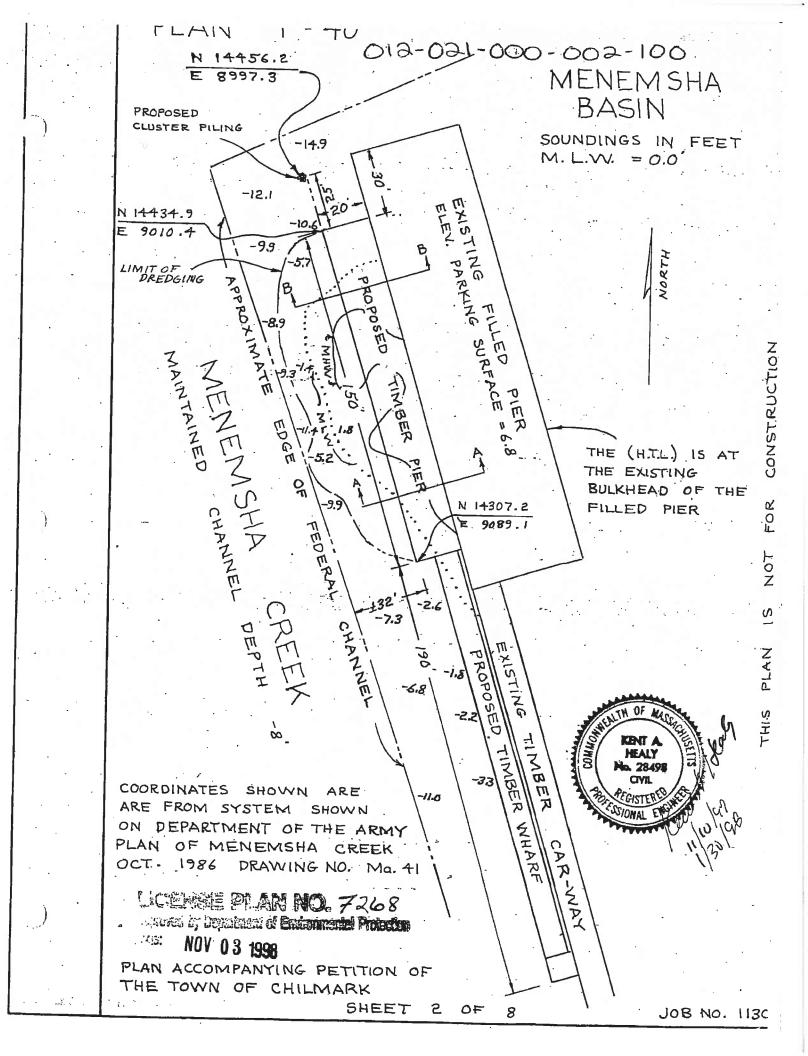
TOWN: CHILMARK
SOURCE: MA-DCR
LOCATION: MA-DCR BOSTON and HINGHAM, MA
DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
012-021-000-002-100	012-021-000-002-100 012-021-000-002-100-DCR1A	2622	MA-DCR	Chilmark	Feburary 1968	Proposed Bulkhead and Related Facilities - Menemsha Basin - OPW of MA Division of Waterways	9	Menemsha Basin	Bulkhead
012-021-000-005-100	012-021-000-005-100 012-021-000-005-100-DCR1A	2622	MA-DCR	Chilmark	February 1968	Proposed Bulkhead and Related Facilities - Menemsha Basin - DPW of MA Division of Waterways	ဖ	Menemsha Basin	Bulkhead
012-021-000-009-200	012-021-000-009-200 012-021-000-009-200-DCR2A	2622	MA-DCR	Chilmark	February 1968	Proposed Bulkhead and Related Facilities - Menemsha Basin - DPW of MA Division of Waterways	9	Menemsha Basin	Bulkhead
012-021-000-009-300	012-021-000-009-300-DCR3A	1094	MA-DCR	Chilmark	May 1949	Proposed Repairs to Stone Jetties - Menemsha Inlet - Chilmark and Gay Head - DPW of MA Division of Waterways	-	Menemsha Inlet	Stone Jetties

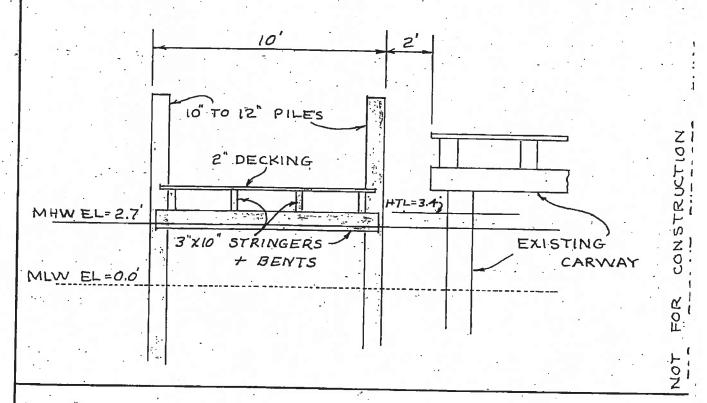
TOWN: CHILMARK
SOURCE: DEP
LOCATION: BOSTON, MA
DATE OF RESEARCH: JULY 2007

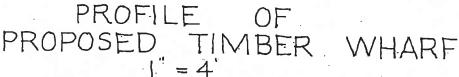
BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
012-021-000-002-100	012-021-000-002-100 012-021-000-002-100-LIC1A	7268	DEP	Chilmark	November 3, 1998	Plan Accompanying Petition of The Town of Chilmark to November 3, 1998 Build and Maintain a Timber Pile Pler and Wharf and Dredge in Menemsha Creek, Chilmark, Mass	8	Menemsha Creek	Bulkhead/Seawail
012-021-000-005-100	012-021-000-005-100-LIC1A	1642	DEP	Chilmark	August 11, 1987	Plan Accompanying Petition of the Commonwealth of Massachusetts DEM to Reconstruct and Maintain Steel Bulkhead, Timber Walkway, and Fender Piles in Menemsha Basin	2	Menemsha Basin Inlet	Steel Bulkhead
012-021-000-005-100	012-021-000-005-100-LIC1B	1642	DEP	Chilmark	August 11, 1987	Plan Accompanying Petition of The Comm. Of Massachusetts Dept. of Environmental Management to Reconstruct and Maintain Steel Buikhead, Timber Walkway, and Fender Piles in Menemaña Basin	2	Menemsha Basin	Steel Bulkhead
012-027-000-142-100	012-027-000-142-100 012-027-000-142-100-LIC1A	6117	DEP	Chilmark	December 10, 1996	Plan Accompanying petition of the Town of Chilmark to December 10, 1996 Dredge and Martinia a Portton of Menemsha Basin in the Town of Chilmark, Mass.	2	Basin Road Bridge	Riprap

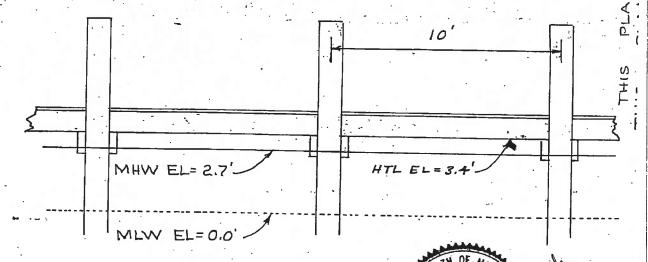




TIMBER WHARF 012-021-000-002-100







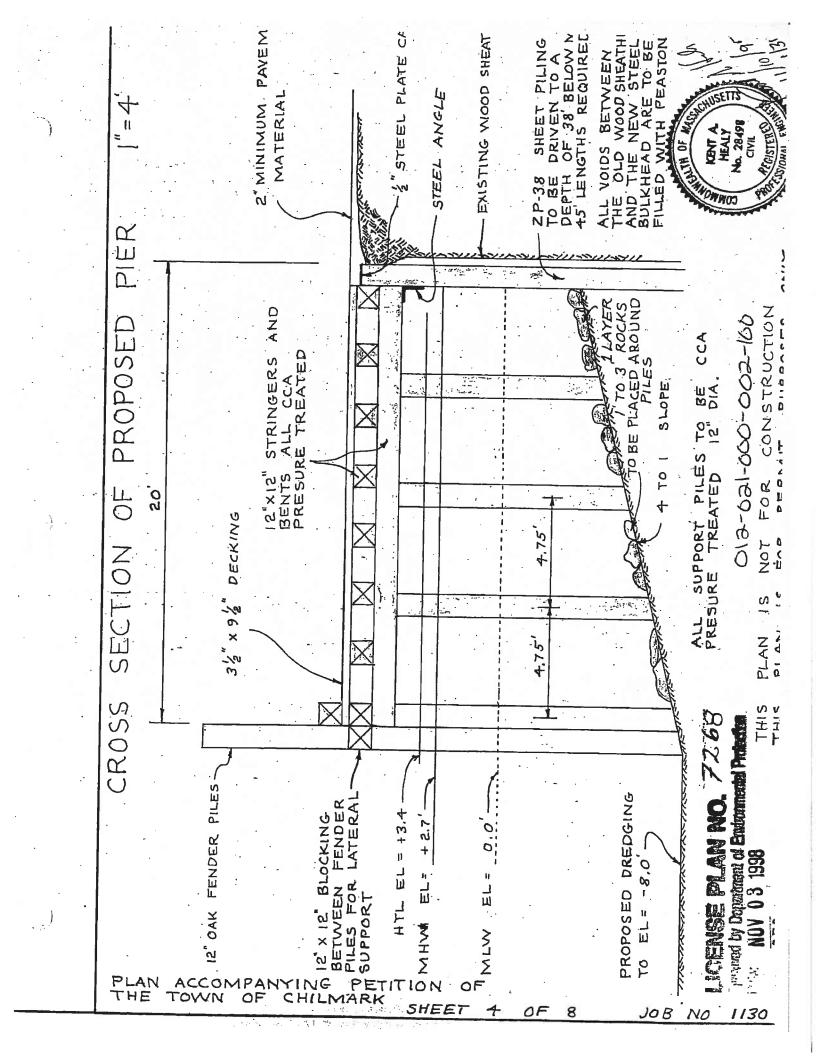
LICENSE PLAN NO. 7268 Approved by Department of Emergmental Profession

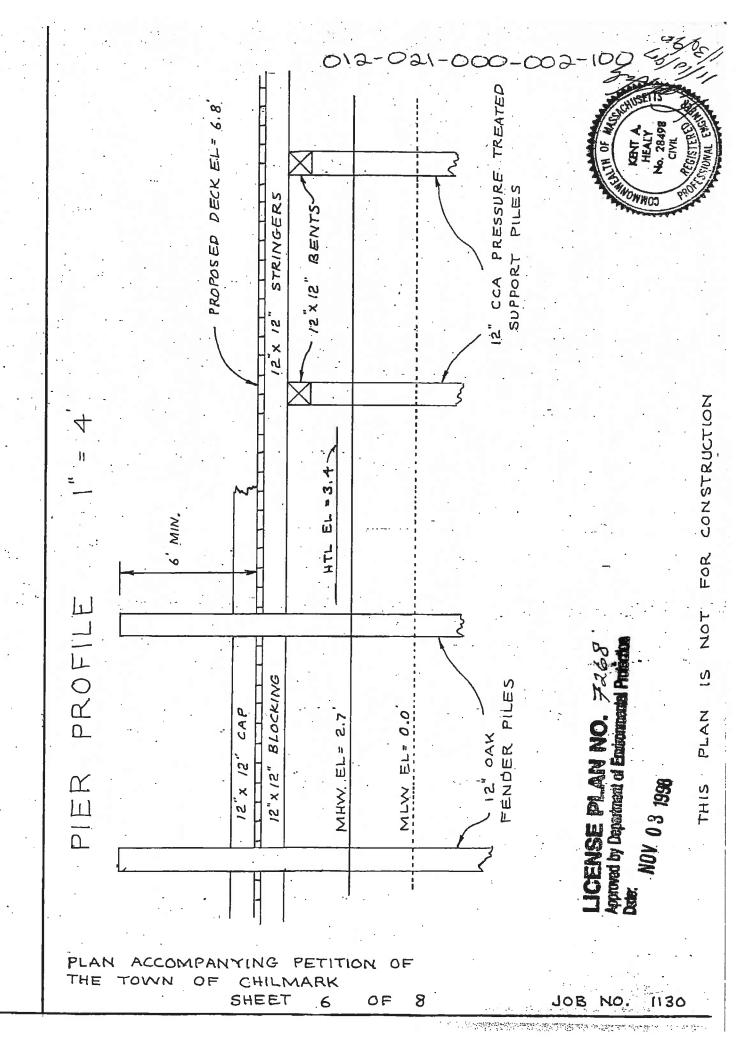
Data: NOV 03 1998

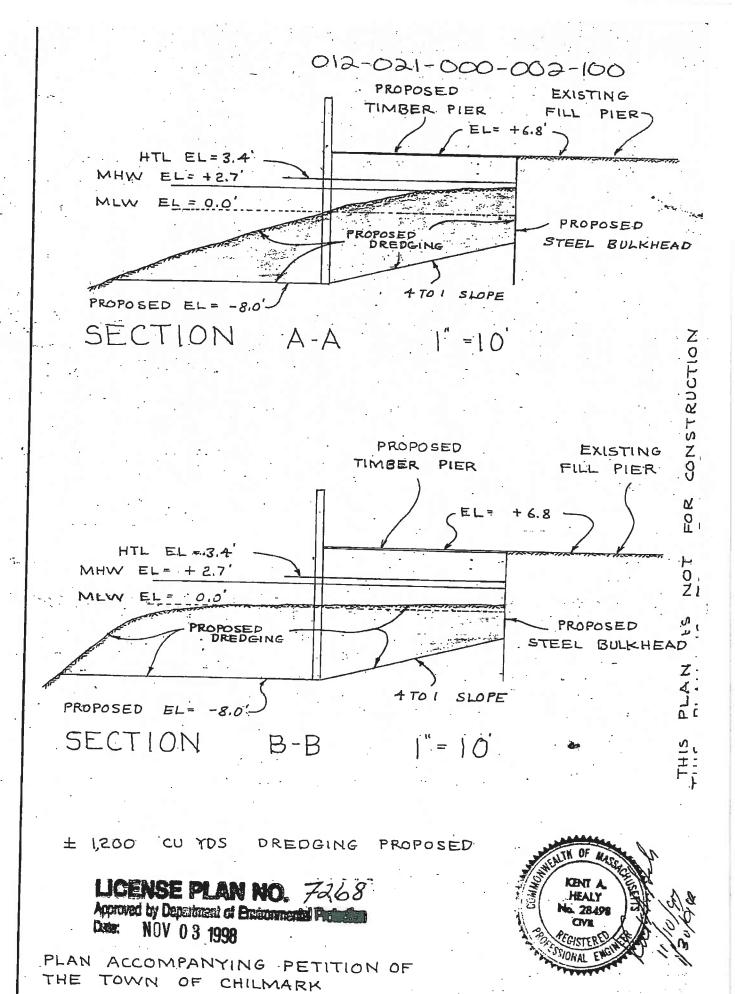
PLAN ACCOMPANYING PETITION OF THE TOWN OF CHILMARK

SHEET 3 OF 8

JOB NO. 1130







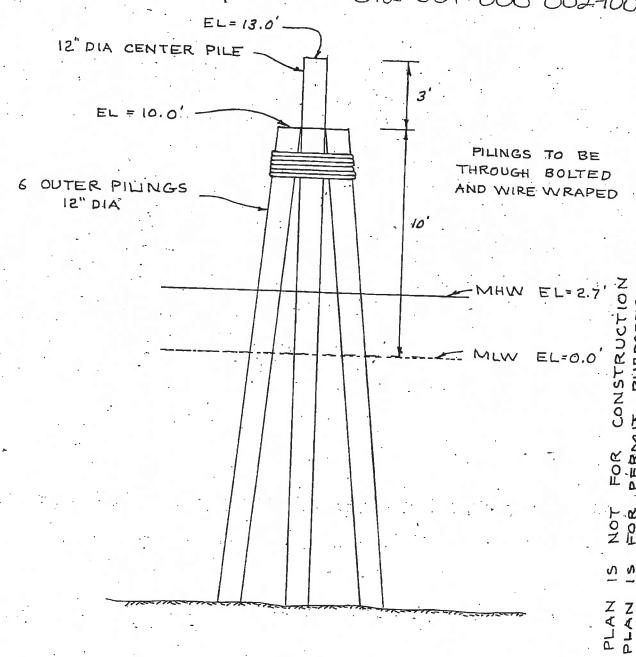
SHEET

7

OF

JOB NO. 1130

CKUSS SECTION OF PROPOSED CLUSTER PILING 012-021-000-002-100



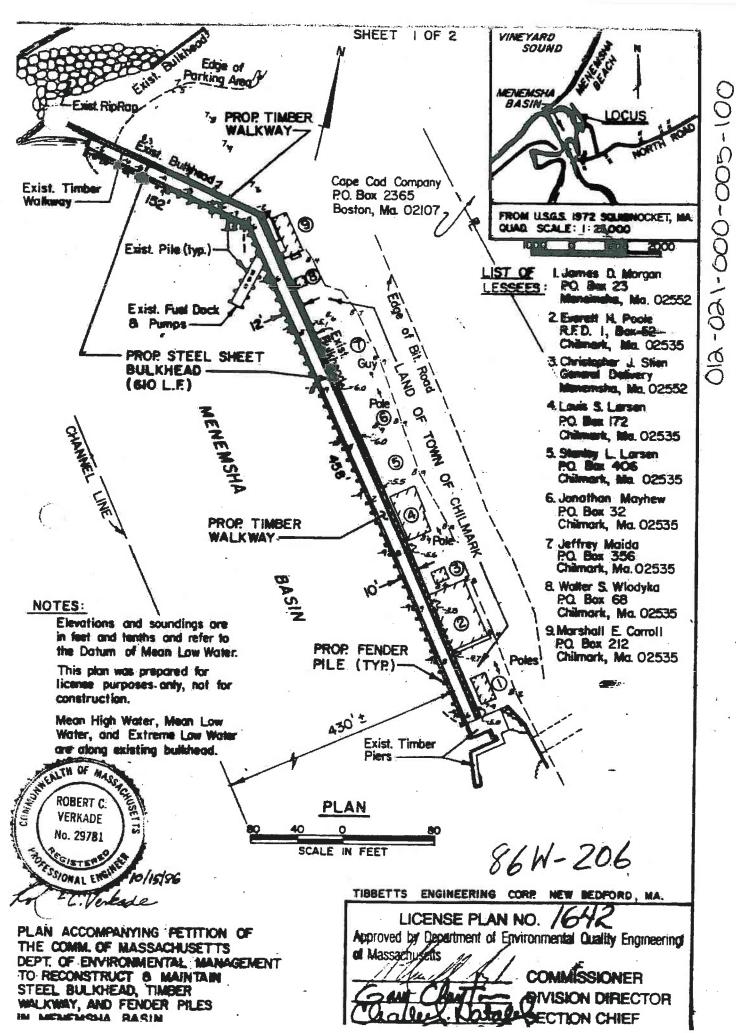
LICENSE PLAN NO. 7268 Exproved by Department of Engineering Projection

NOV 03 1998

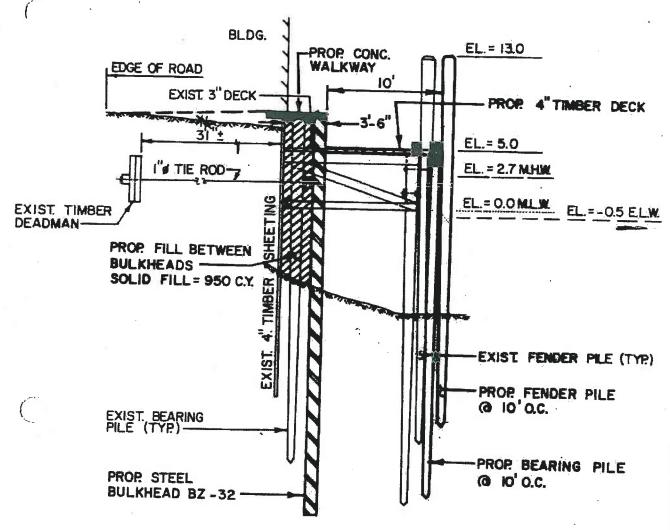
PLAN ACCOMPANYING PETITION OF THE TOWN OF CHILMARK

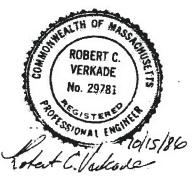
SHEET 8 OF





86-206



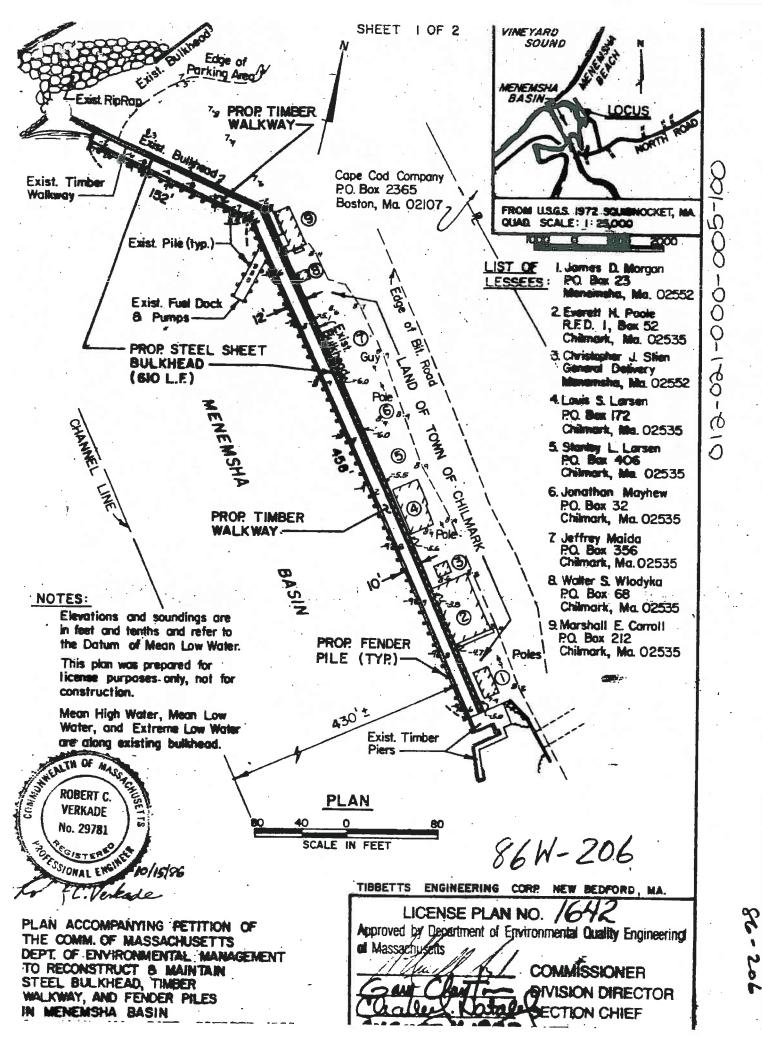


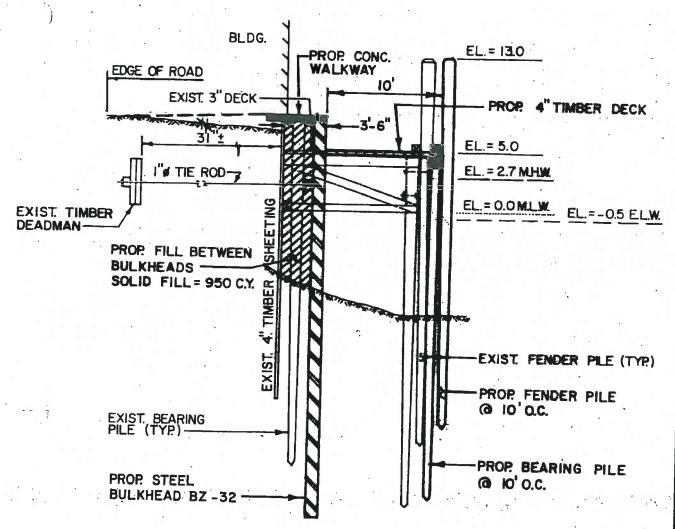
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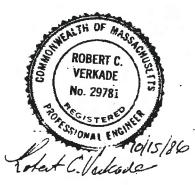
LICENSE PLAN NO. 1642 Approved by Department of Environmental Quality Engineering

AUGUST 11,1987 86 W-206

PLAN ACCOMPANYING PETITION OF THE COMM OF MASSACHUSETTS DEPT OF ENVIRONMENTAL MANAGEMENT







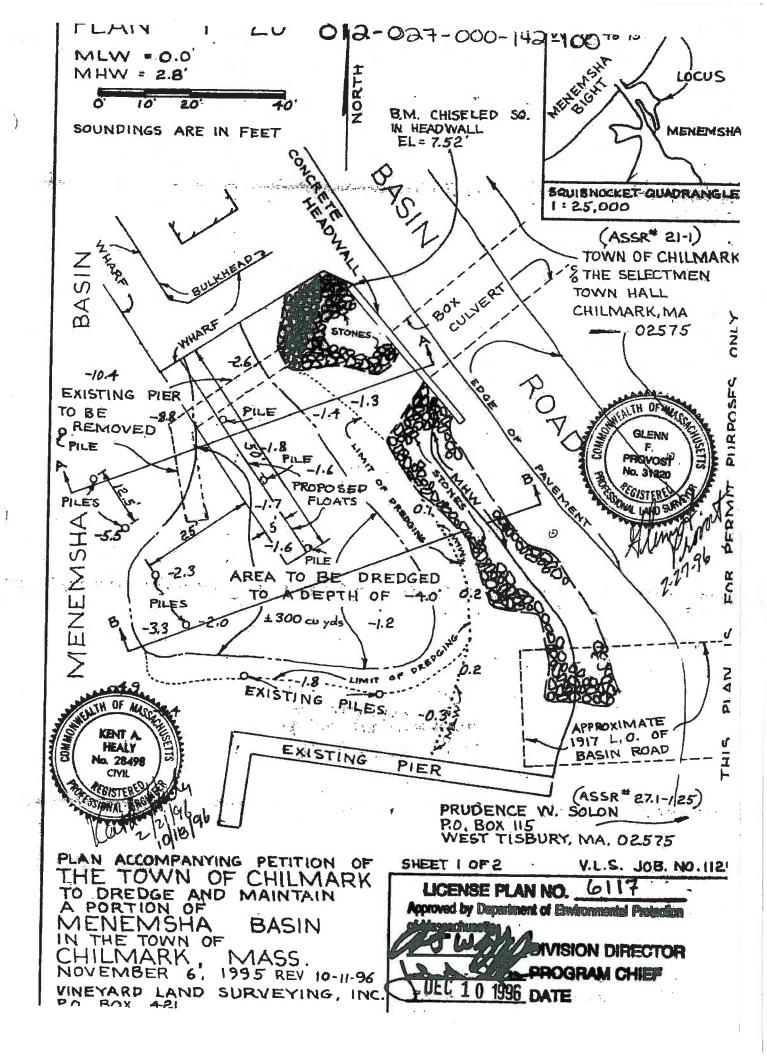
TYPICAL SECTION
SCALE: I"= 8'

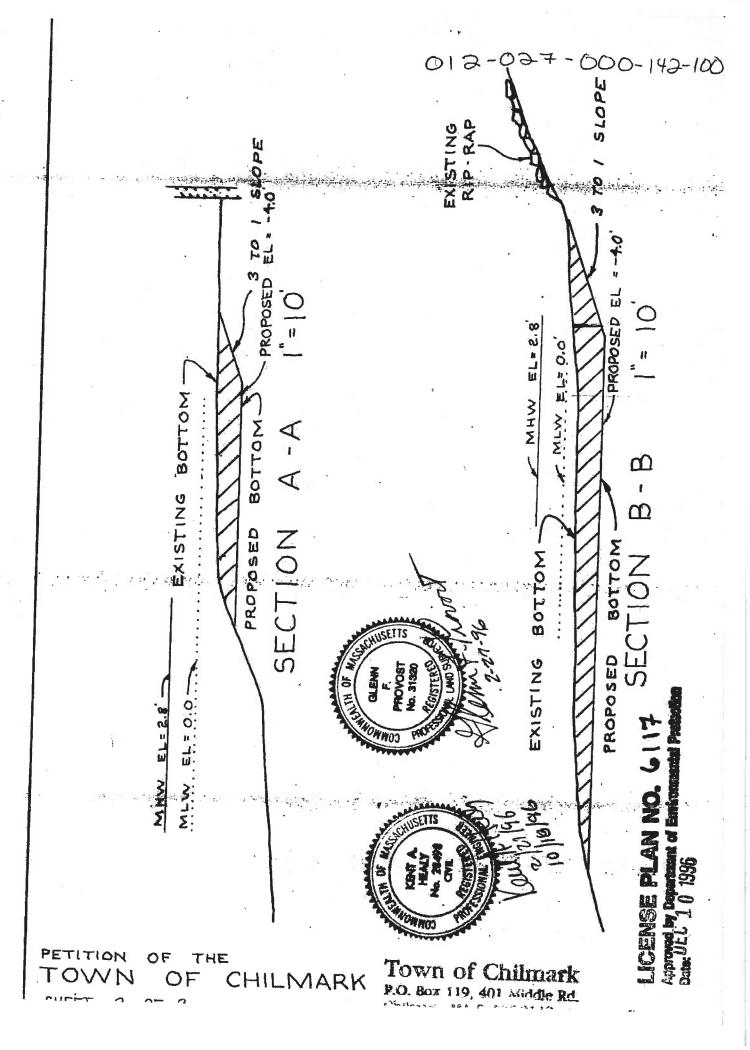
LICENSE PLAN NO. 1642

Approved by Department of Environmental Quality Engineering

AUGUST 11,1987 86 W-206

PLAN ACCOMPANYING PETITION OF THE COMM. OF MASSACHUSETTS DEPT. OF ENVIRONMENTAL MANAGEMENT





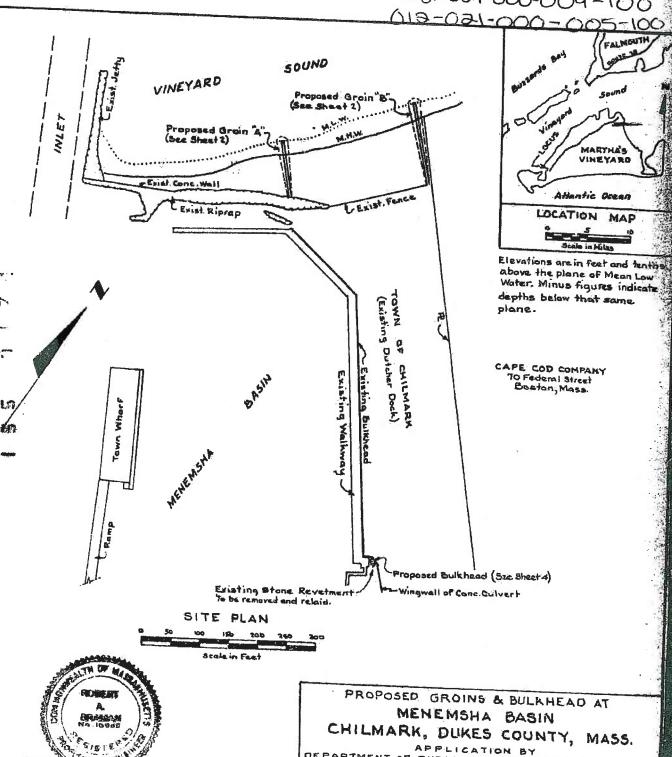
TOWN: CHILMARK
SOURCE: US ACOE
LOCATION: CONCORD, MA
DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	тив	Sheets	Location	Description
012-021-000-005-100	12-021-000-005-100 012-021-000-005-100-COE1A	74-187	USACE	Chilmark	May 2, 1974	Proposed Groins and Bulkhead at Menemsha Basin - Chilmark, Dukes County, Mass.	4	Menemsha Basin Inlet	Groins and Buikhead
012-021-000-009-100	112-021-000-009-100 012-021-000-009-100-COE1A	74-187	USACE	Chilmark	May 2, 1974	Proposed Groins and Bulkhead at Menemsha Basin - Chilmark, Dukes County, Mass.	4	Menemsha Basin Inlet	Groins and Bulkhead

0 3 4 0 8 5 5

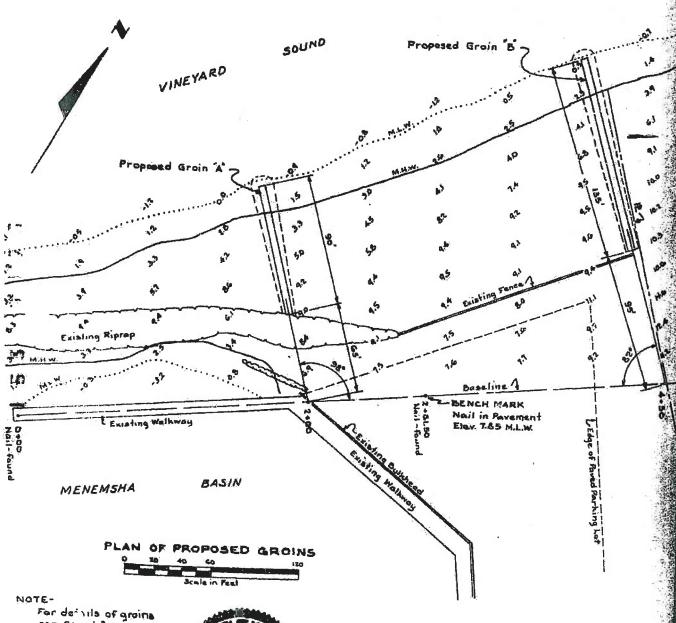
012-021-000-009-100

DIVISION OF WATERWAYS



0 3 4 0 8 5 6

012-021-000-009-100



For definits of groins see Sheet 3.

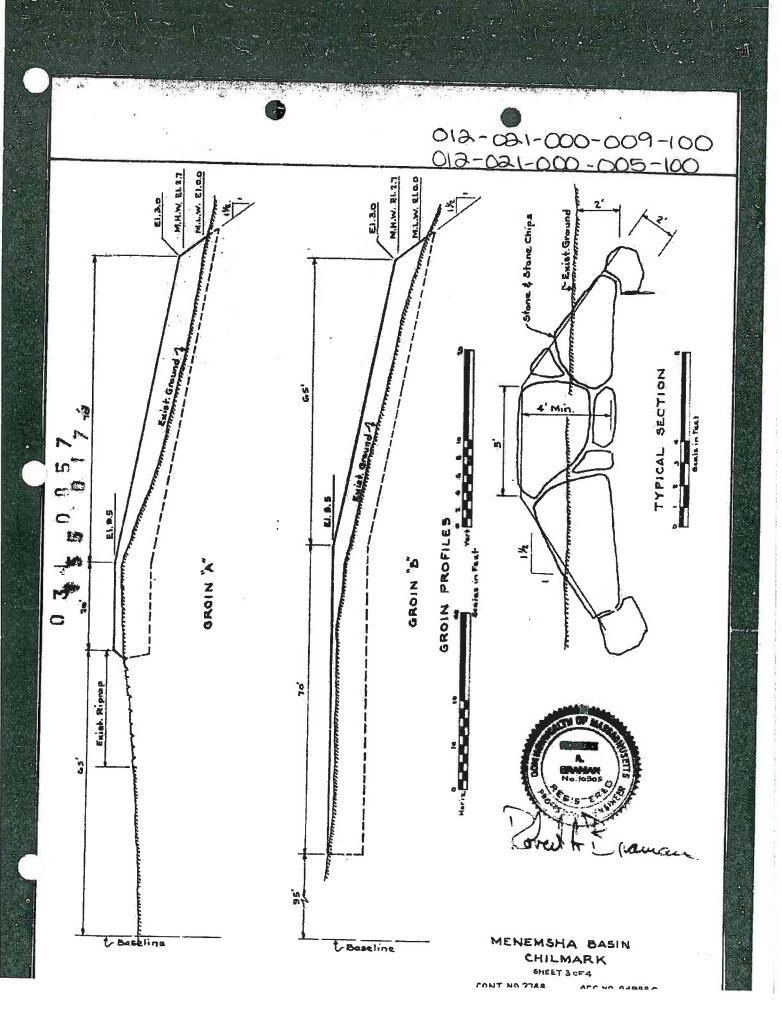


MENEMSHA BASIN CHILMARK

SHEET TOFA

CONT NO 2768

ACC. NO 045955



0 8 5 8. 012-021-000-009-100 Relaid Stone Revetment Toe of Stone PLAN 6-0" o.c. 6'0" a.c. 6:0 a.c. 563 Elev. 6.50 Top of Stone Elev. 5.0 M. H.W. Elgy, 2.T 3 x 15 lq . Wee ELEVATION SECTION PROPOSED BULKHEAD DETAILS



SHEET 4 SF4

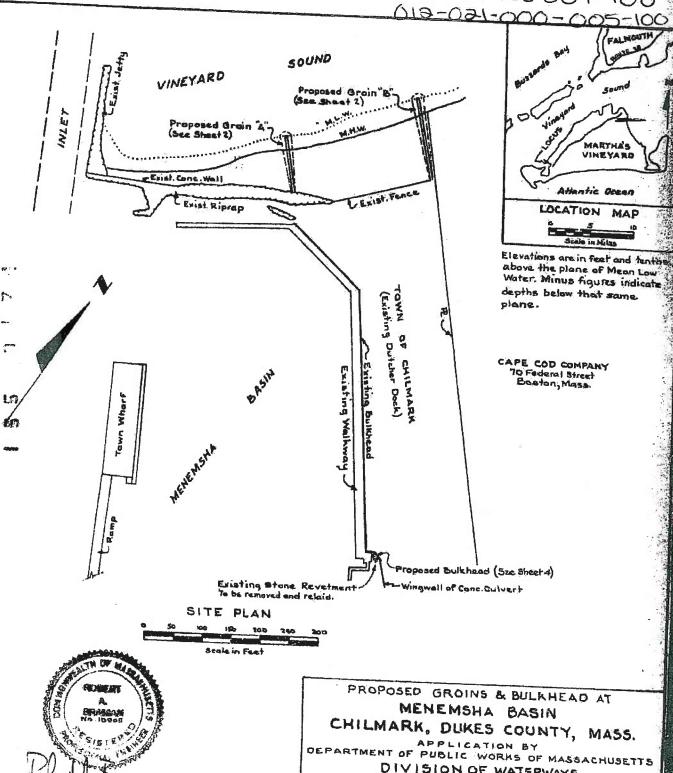
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012-021-000-009-100

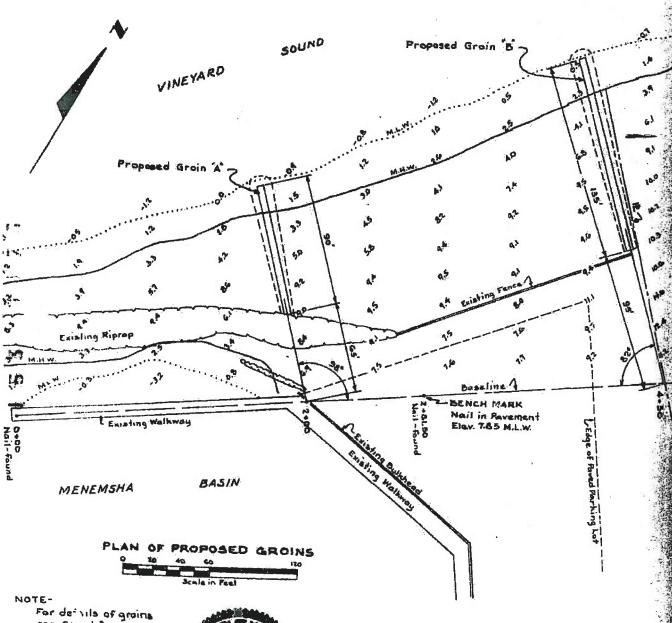
DIVISION OF WATERWAYS

MAY 2,1574



034 0856

012-021-000-009-100



For defines of grains see Sheet 3.

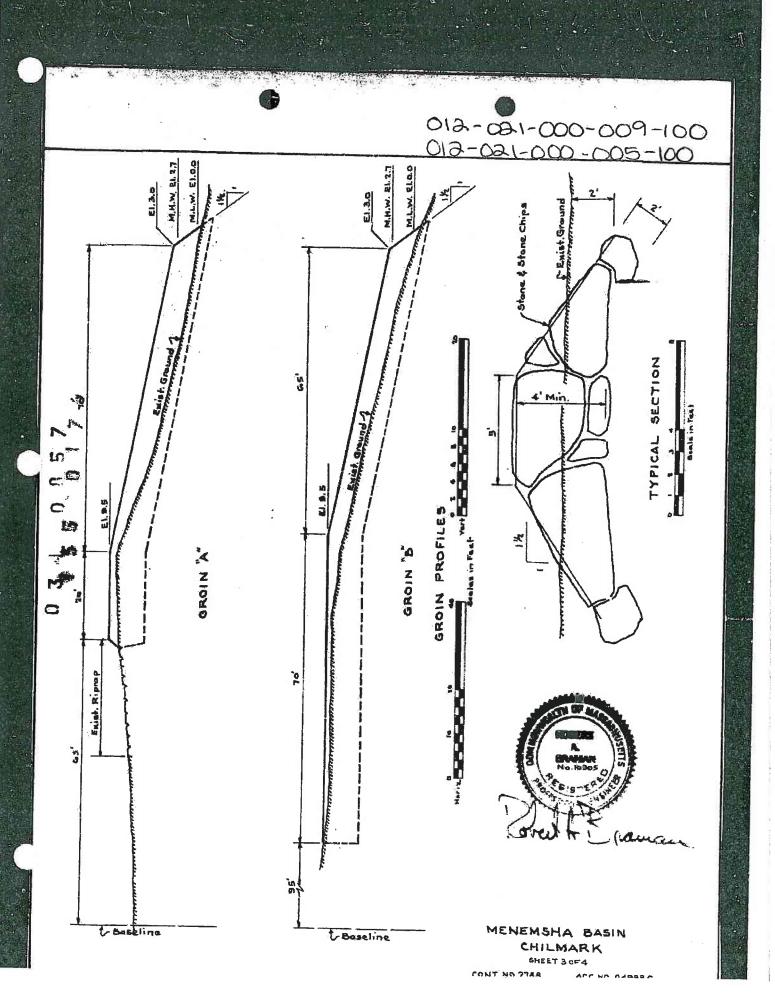


MENEMSHA BASIN CHILMARK

SHEET TOFA

CONT NO 2758

ACC. NO. 049988



0 8 5 8. 012-021-000-009-100 012-021-000-005-100 20 Relaid Stone Revetment Toe of Stone PLAN 6:0" a.e. G'0 0.E. Elev. 11.50 Elev. 6.25 Elev. 6.50 Top of Stone Elev. 5.0 M.H.W. Elev. 2.7 3 = 15 ig . Wood ELEVATION SECTION PROPOSED BULKHEAD DETAILS

> MENEMSHA BASIN CHILMARK SHEET 4 0F4

Section IX

Gosnold



Section IX - Community Findings - Town of Gosnold

COMMUNITY DESCRIPTION

The Town of Gosnold consists of a land area of 13.34 square miles out of a total area of 132.24 square miles and had a population of 86 in the 2000 census. The Town is located off the Cape of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 56.6 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Gosnold, there were 7 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 in Section IX-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Gosnold

	Total	St	tructure Condi	tion Rating		
Primary Structure (1)	Structures A	В	С	D	F	Total Length
Bulkhead / Seawall	1	1				135
Revetment	3	2	1			835
Breakwater						
Groin / Jetty	3	1	1	1		900
Coastal Dune						
Coastal Beach						
	7	4	2	1		1870

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Gosnold's case there are a total of 7 structures which would require approximately \$ 903,725 to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 398,400 would be required to upgrade the Town's coastal protection.

BCE

STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Gosnold

	Total		S	truct	ure Condit	ion	Rating			
Primary Structure (1)	Structures	Α	В		С		D	 F	Tot	al Cost
Bulkhead / Seawall	1		\$ 20,493						\$	20,493
Revetment	3		\$ 111,388	\$	60,060				\$	171,451
Breakwater									\$	-
Groin / Jetty	3		\$ 157,000	\$	156,400	\$	398,376		\$	711,779
Coastal Dune									\$	-
Coastal Beach									\$	-
	7	\$-	\$ 288,881	\$	216,460	\$	398,376	\$ -	\$	903,723

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Gosnold, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Gosnold

	Total		 St	ruct	ure Conditi	ion l	Rating			
Primary Structure (1)	Structures	Α	 В		С		D	F	Т	tal Cost
Town Owned	7		\$ 288,881	\$	216,450	\$	398,376		\$	903,707
Commonwealth of Massachusetts									\$	-
Federal Government Owned									\$	-
Unknown Ownership									\$	-
	7	\$-	\$ 288,881	\$	216,450	\$	398,376 \$		- \$	903,707

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section IX-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Gosnold's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

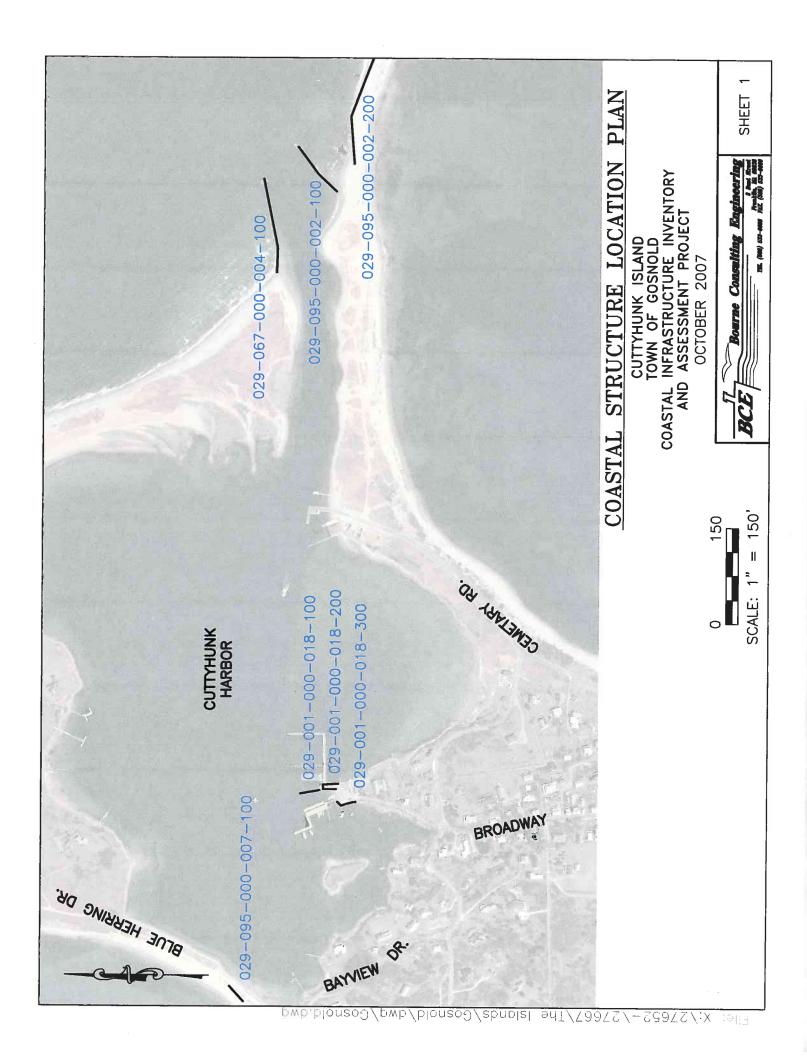
BCE

Section IX - Gosnold

Part B

Structure Assessment Reports





Structure Assessment Form

Town: Gosnold

Structure ID: 029-001-000-018-100

Property Owner:		Location:		Da	te:
Local		Town Pier			9/26/2007
Presumed Structure	e Owner:	Based On Con	nment:	J	
Local				<u> </u>	
Owner Name:		Earliest Struct	ure Record	Estimated Poses	nstruction/Repair Cost:
Gosnold		Unkown	ure Record.	Estimated Recor	\$156,400.00
Longth. To. F				į.	
Length: Top E	levation: FIRM Map Zone: A12	FIRM Map Elevati	on: 12		
1 1	IAVD 88	Feet NGV			-1
Primary Type:	Primary Material:	Primary Height:		-	7
Groin/ Jetty	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height	:		
Structure Summary					
size.	It from the Town Pier. Signs of stor	ne moveme nt and s	ection loss. The si	tones are approximately 3 feet l	by 2 feet by 2 feet in
Condition	С		Priority	II	
Rating	Fair		Rating	 Low Priority	
Level of Action	Moderate		Action	Future Project Consideration	n
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a ristorm. Actions taken to provide admaterial for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	Inshore Structures Present potential for Significant Infra	
Structure Image		cture Document	ts:		resulption (measurement)
029-001-000-018-10					-
029-001-000-018-10	JU-PHO1B.JPG				

Structure Assessment Form

Town: Gosnold

Structure ID: 029-001-000-018-200

Condition B Rating G	ration: FIRM Map Zo /D 88 Primary Material: Stone Secondary Material:	Earliest St Unkown one: FIRM Map Ele	comment: ructure Record: evation: 12 NGVD	Estimated R	Pate: 9/26/2007 Reconstruction/Repair Cost: \$20,493.00
Local Owner Name: Gosnold Length: Top Elev 135 Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Goodstone	ration: FIRM Map Zo /D 88 Primary Material: Stone Secondary Material:	Earliest St Unkown One: FIRM Map Ele A12 Feet Primary Heigh 5 to 10 Feet	evation: 12 NGVD	Estimated R	Reconstruction/Repair Cost:
Local Owner Name: Gosnold Length: Top Elev 135 Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Goodstone	ration: FIRM Map Zo /D 88 Primary Material: Stone Secondary Material:	Earliest St Unkown One: FIRM Map Ele A12 Feet Primary Heigh 5 to 10 Feet	evation: 12 NGVD	Estimated F	110 2, 77 17 17
Owner Name: Gosnold Length: Top Elev 135 Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The s Condition B Rating G	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	One: FIRM Map Ele A12 Feet Primary Heigh 5 to 10 Feet	evation: 12 NGVD nt:	Estimated F	110 2, 77 17 17
Gosnold Length: Top Elev 135 Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Goodstone Goodsto	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	One: FIRM Map Ele A12 Feet Primary Heigh 5 to 10 Feet	evation: 12 NGVD nt:	Estimated F	110 2, 77 17 17
Length: Top Elev 135 Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Grant Gr	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	one: FIRM Map Ele A12 Feet Primary Heigh 5 to 10 Feet	12 NGVD nt:		\$20,493.00
Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Grant Gra	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	Feet Primary Heigh 5 to 10 Feet	12 NGVD nt:		
Feet Feet NAV Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Secondary Type:	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	Feet Primary Heigh 5 to 10 Feet	NGVD nt:		
Primary Type: Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The secondary Secondary Type:	Primary Material: Stone Secondary Material: 0 1 slope. There is no visib	Primary Heigh 5 to 10 Feet	nt:		
Bulkhead/ Seawall Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The s Condition B Rating G	Secondary Material: 0 1 slope. There is no visib	5 to 10 Feet			
Secondary Type: Structure Summary: Placed stone on a 1 to Master's office. The standard Condition Rating G	Secondary Material: 0 1 slope. There is no visib		eight:		
Structure Summary: Placed stone on a 1 to Master's office. The s Condition B Rating G	o 1 slope. There is no visib	Secondary He	eight:		
Placed stone on a 1 to Master's office. The s Condition B Rating G	o 1 slope. There is no visib				
Placed stone on a 1 to Master's office. The s Condition B Rating G	0 1 slope. There is no visib			THE RESERVE OF THE PARTY OF THE	6
Condition B Rating G	o 1 slope. There is no visib				
Rating G	Auries are 2 feet by 2 feet t	by 2 feet on average.	inor erosion at the top	. Above the seawall is acce	ess to piers and Harbor
Rating G			Priority	III	
Level of Action M	Good		Rating	Moderate Priority	
der er ej menen	linor		Action	Consider for Active Pro	oject Improvement
	tructure observed to exhibit		D. J. C.	Listing	
to	roblems, superficial in natur landform is present. Stru	cture / landform	Description	Inshore Structures with Infrastructure Damage	and/or Limited
	dequate to provide protection oastal storm with no damage			Residential Dwellings (100 feet of shoreline)	(<1 dwelling impacted /
to	prevent / limit future deteri	ioration and extend		roo look of bilolollilo,	
III	e of structure.				
tructure Images: 29-001-000-018-200-		Structure Docum			
29-001-000-018-200- 29-001-000-018-200-		USACE			01-000-018-200-COE2A
23-001-000-018-200-	PHUZB.JPG	MA-DCR	February 19 Prop	oosed Hurricane 029-00	01-000-018-200-DCR2A

Structure Assessment Form

Town: Gosnold
Structure ID: 029-001-000-018-300

Presumed Structure Owner: Based On Comment: Downer Name:	Property Owner:		Location:			Date:
Downer Name: Gosnold Earliest Structure Record: Unkown Estimated Reconstruction/Repair Cost: \$60,060.00 Rength: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 100 A12 Feet NGVD Feet NGVD Primary Type: Primary Material: Feet NGVD Primary Type: Secondary Type: Secondary Material: Secondary Height: Secondary Material: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Height: Secondary Heigh	Local		Town Pier			9/26/2007
Demer Name: Demonstrate Second Estimated Reconstruction/Repair Cost: Flith Map Zone: Flith Map Elevation: 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 1	Presumed Structur	re Owner:	Based On Com	ment:		is.
Gosnold Inkown Section Section Section	Local					
Unkown \$60,060.00	Owner Name:		Earliest Structu	ure Record:	Estimated R	econstruction/Repair Cost:
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Stone Secondary Material: Stone Secondary Height: Stone Secondary Material: Secondary Height: Structure Summary: Summary: Secondary Material: Secondary Height: Structure Summary: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Height: Secondar	Gosnold		Unkown			255
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Dumped stone riprap with various stone sizes. Most are 12 inches down. Behind is parking lot. Many areas of section loss. Condition C Rating Fair Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or sour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents:	Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevati	on:		
Primary Type: Primary Material: Stone 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height:	,			12		Alexander of the second
Revetment Stone 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Dumped stone riprap with various stone sizes. Most are 12 inches down. Behind is parking lot. Many areas of section loss. Condition C Priority I Rating Fair Rating None Level of Action Moderate Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide fully protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protects shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents:	Feet Feet N	NAVD 88	Feet NGV	'D		4
Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height:	Primary Type:		21 020 2-1 10			
Dumped stone riprap with various stone sizes. Most are 12 inches down. Behind is parking lot. Many areas of section loss. Condition C Rating Fair Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Documents:	Revetment	Stone	5 to 10 Feet			
Dumped stone riprap with various stone sizes. Most are 12 inches down. Condition C Priority I Rating None Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents:	Secondary Type:	Secondary Material:	Secondary Height	_		77.7
Dumped stone riprap with various stone sizes. Most are 12 inches down. Condition C Priority I Rating None Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents:	l		1			
Condition C Rating Fair Rating None Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Action staken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents:					47 - 11 - 12 - 23 - 24 - 24 - 24 - 24 - 24 - 24 - 2	
	Level of Action Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structu to withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a night storm. Actions taken to provide ad	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Action	No Inshore Structures	
			cture Document	rs:		

Structure Assessment Form

Town: Gosnold

Structure ID: 029-067-000-004-100

Property Owner:		Location:		Date:	
Local		Cuttyhunk No	rth Jetty		9/26/2007
Presumed Structur	re Owner:	Based On Con	nment:	,	
Local				The second secon	
Owner Name:		j Englant Struct	ave Decemb	Fatter to d B a cont	
Gosnold		Earliest Struct Unkown	ure Record:	Estimated Reconstru	\$157,000.00
					4137,000.00
	Elevation: FIRM Map Zone				
500	V1	.4	14		
Feet Feet I	NAVD 88	Feet NG\	V D		
Primary Type:	Primary Material:	Primary Height:		W. E. W.	
Groin/ Jetty	Stone	10 to 15 Feet			2
Secondary Type:	Secondary Material:	Secondary Height	t:		
			_		
Structure Summar					
Dumped stone mo	ound jetty at the entrance of Cutty stones are 4 feet by 2 feet by 2	hunk Pond. There is	minor stone move	ment. There is no visible scour. Or	both sides is a
bandy beach. The	Stories die 4 leet by 2 leet by 2	reet on average.			
Condition	В		Priority	ı	
Rating	Good		Rating	None	
$Level\ of\ Action$	Minor		Action	Long Term Planning Considerate	tions
Description	Structure observed to exhibit very problems, superficial in nature. to landform is present. Structure adequate to provide protection coastal storm with no damage. to prevent / limit future deterioralife of structure.	Minor erosion ire / landform from a major Actions taken	Description	No Inshore Structures or Reside Units Present	ential Dwelling
Structure Image 029-067-000-004-1 029-067-000-004-1	00-PHO1A.JPG	tructure Documen	ts:		

Structure Assessment Form

Town: Gosnold
Structure ID: 029-095-000-002-100

Property Owner:		Location:			Date:
Local		Cuttyhunk Sou	ıth Jetty		9/26/2007
Presumed Structur	e Owner:	Based On Com	nment:		*
Local					
Owner Name:		" Earliest Struct	ure Record:	Estimated I	Reconstruction/Repair Cost:
Gosnold		Unkown			\$398,376.00
300 Feet Feet N Primary Type: Groin/ Jetty Secondary Type: Structure Summary		Feet NGV Primary Height: Under 5 Feet Secondary Height	14 /D :		
	y with moderate to heavy stone mov	vement and section	loss. Stones are	3 feet by 2 feet by 2 feet of	on average.
Condition	D		Priority	Í	
Rating	Poor		Rating	None	
Level of Action	Major		Action	Long Term Planning C	Considerations
Description	Structure exhibits advanced levels deterioration, section loss, cracking undermining, and/or scour. Structi strong risk of significant damage a failure during a major coastal storm should be monitored until repairs/reconstruction can be initia taken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide during major coastal storm. Actions recreate landform to adequate limit protection from a major coastal storm.	g, spalling, ure has und possible n. Structure tted. Actions egain full storm. ned. protection s taken to ts for full	Description	Units Present	or Residential Dwelling
Structure Image 029-095-000-002-1 029-095-000-002-1	00-PHO1A.JPG	cture Documen	ts:		

Structure Assessment Form

Town: Gosnold

Structure ID: 029-095-000-002-200

Property Owner:		Location:	Date:
Local		Cuttyhunk Harbor	9/26/2007
Presumed Structur	e Owner:	Based On Comment:	1
Local			
Owner Name:		Earliest Structure Record:	Estimated Reconstruction/Repair Cost:
Gosnold		Unkown	\$98,175.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation:	
625	V14	14	
Feet Feet M	AVD 88	Feet NGVD	
Primary Type:	Primary Material:	Primary Height:	
Revetment	Stone	10 to 15 Feet	(A) 基本 (A) (A) (A) (A)
Secondary Type:	Secondary Material:	Secondary Height:	A STATE OF THE PARTY OF THE PAR
Structure Summan	<i>(</i> :		
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.	inor erosion / landform m a major ctions taken	None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
Structure Image 029-095-000-002-2 029-095-000-002-2	00-PHO2A.JPG	ucture Documents:	

Structure Assessment Form

Town: Gosnold
Structure ID: 029-095-000-007-100

Property Owner:		Location:		Date:
Local		Blue Herring Driv	⁄e	9/26/2
Presumed Structure	e Owner:	Based On Commo	ent:	
Local				
Owner Name:		" Earliest Structure	Record:	Estimated Reconstruction/Repair Co
Gosnold		Unkown		\$13,213.
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation:		
110	A12	12		
Feet Feet N	IAVD 88	Feet NGVD		
Primary Type:	Primary Material:	Primary Height:		THE REAL PROPERTY.
Revetment	Stone	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		
Structure Summary	<i>t</i> :			
Level of Action Description	Minor Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.	minor	lction Description	Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
tructure Image	es: Stru	ucture Documents:		
tructure Image 29-095-000-007-10		ucture Documents:		
29-095-000-007-10	00-PHO1A.JPG	ucture Documents:		
29-095-000-007-10	00-PHO1A.JPG	ucture Documents:		
	00-PHO1A.JPG	ucture Documents:		
29-095-000-007-10	00-PHO1A.JPG	ucture Documents:		

Section IX - Gosnold

Part C Structure Photographs



SOURCE: BGE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: GOSNOLD

Structure Condition Photo at Time of Survey Structure Condillon Pholo at Time of Survey Structure Condition Photo at Time of Survey Structure Location Structure Localion Structure Location Location Sheets -_ DIGITAL IMAGE H October 2007 Date Municipality Gosnold Gosnold Gosnold Gosnold Gosnold Gosnold Gosnold Gosnold Gosnold Gosnald Consulting Engineering Bourne Consulting Engineering E Contract/ Drawing Number 029-001-000-018-100-PHO1A.jpg 029-001-000-018-100-PHO1B.jpg 029-001-000-018-200-PHO2A.jpg 029-001-000-018-200-PHO2B.jpg 029-001-000-018-300-PHO3A.Jpg 029-067-000-004-100-PHO1A.jpg 029-067-000-004-100-PHO1B.jpg 029-095-000-002-100-PHO1A.jpg 029-085-000-002-100-PHO1B.Jpg 029-095-000-002-200-PHO2A.Jpg 029-085-000-002-200-PHO2B.jpg Document No 029-001-000-018-100 029-001-000-018-200 029-001-000-018-200 029-001-000-018-100 029-085-000-002-200 029-001-000-018-300 028-067-000-004-100 029-067-000-004-100 029-095-000-002-100 029-095-000-002-100 029-095-000-002-200 BCE Structure No

Structure Condition Photo at Time of Survey Structure Condition Photo at Time of Survey

Structure Location

Structure Location

DIGITAL IMAGE DIGITAL IMAGE

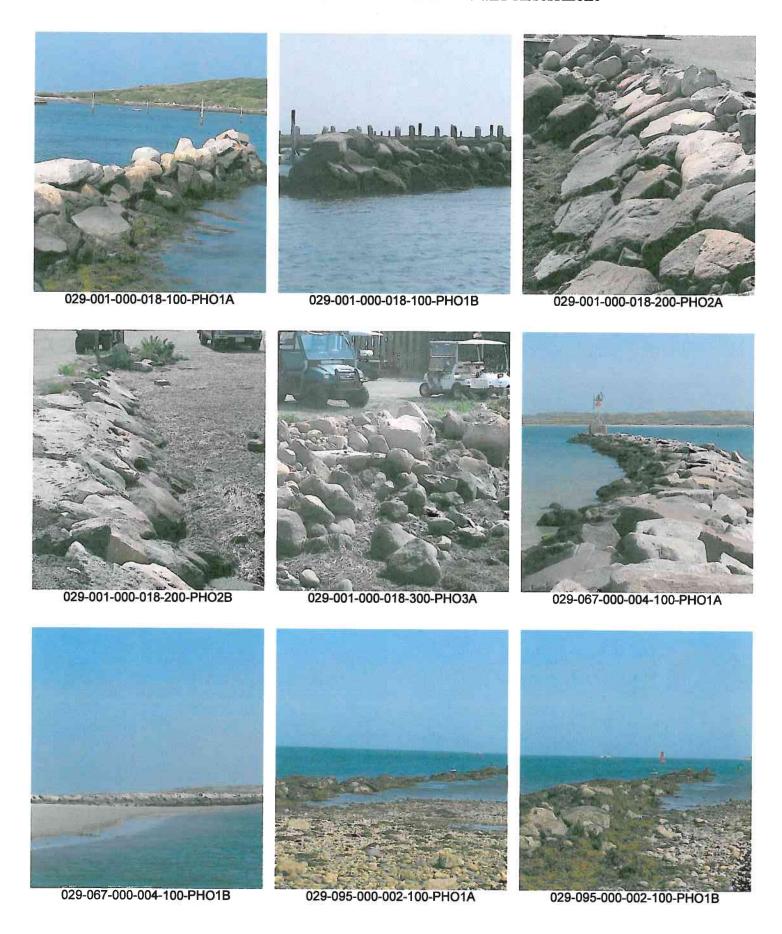
October 2007 October 2007

029-085-000-007-100-PHO1A.jpg 029-095-000-007-100-PHO1B.jpg

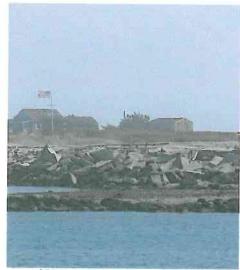
029-095-000-007-100 029-095-000-007-100

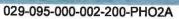
Gosnold

Massachusetts Coastal Infrastructure and Assessment



Massachusetts Coastal Infrastructure and Assessment







029-095-000-002-200-PHO2B



029-095-000-007-100-PHO1A



029-095-000-007-100-PHO1B

Section IX - Gosnold

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP – Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE – PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Gosnold

TOWN: GOSNOLD SOURCE: Town of Gosnold LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

-	
Sheets	
THE	
Date	
Municipality	
Entity	ŀ

TOWN: GOSNOLD SOURCE: MA-DCR LOCATION: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Dacument No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
029-001-000-018-200	029-001-000-018-200-DCR2A	1469	MA-DCR	Gosnold	February 1955	Proposed Hurricane Repairs - Town Pier Reconstruction - Cuttyhunk Island - Gosnold, MA - DPW of MA Division of Waterways	2	Cuttyhunk Island Town Pier	Pler Reconstruction

No MA - DEP Ch. 91 Documents for the Town of Gosnold

TOWN: GOSNOLD SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

Description	
Location	
Sheets	
Title	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

TOWN: GOSNOLD SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
029-001-000-018-200	029-001-000-018-200-COE2A	63-8	USACE	Gosnald	November 1962	Proposed Dock Improvements - Timber Pier - Vovember 1962 Vicinity of Fisherman's Wharf - Cuttyhunk Pond - Gosnold, MA	2	Fisherman's Wharf	Pier with Riprap

075 1358

039-001-000-018-200.

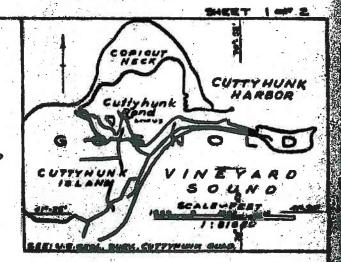
NOTE

ELEVATIONS ARE IN PRET ETENTION ABOVE THE PLANE OF MEAN LOW WATER, MINUS FIGURES INDICATE DEPTIES EXCENT THE SAME PLANE,

LOCATION OF PROPOSED WORK SHOWN IN RED

PLAN

BCALR IF IMP



NOVEMBER 1962

John (& Bradfor

