South Shore Coastal Infrastructure Inventory and Assessment Demonstration Project Coastal Hazards Commission

Town of Hingham



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Presented by:

Bourne Consulting Engineering Franklin, Massachusetts

In Association With:

Applied Coastal Research & Engineering, Inc. Alpha Land Surveying & Engineering Associates





Bourne Consulting Engineering

Waterfront Engineers

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Section I

Town of Hingham

Coastal Hazards Infrastructure and Assessment Program



South Shore Coastal Infrastructure Inventory and Assessment Demonstration 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 region included in the demonstration project was identified as the South Shore and included the eight communities of Hingham, Hull, Cohasset, Scituate, Marshfield, Duxbury, Kingston and Plymouth.

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, research and field assessments. Assisting BCE was Applied Coastal Research and Engineering, Inc. of Mashpee, MA who was responsible for field assessments and GIS data conversion. Alpha Land Surveying and Engineering of Middleboro, MA also supported the Team with field GPS survey.

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 is the performance of a demonstration project for coastal structures located on the South Shore. The demonstration project will identify existing structures, their general conditions, ability to provide coastal protection and the probable cost for repairs. The information collected and developed will be incorporated into the MassGIS system to allow use for developing a 20 Year Coastal Infrastructure Plan.

As this is a demonstration project, it will serve as the basis for development of a statewide inventory and assessment of all Commonwealth coastal structures and the needs for their maintenance and/or repair. Incorporated into this project will be the identification of issues and limitations of the investigation and



assessment to achieve the overall goals and what should be included in future investigations/assessments of coastal structures for the other regions.

Goals of Study

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

- To be used as the model to go forward for assessment of coastal structures for the remainder of the coastal regions
- To identify areas of research and/or assessment that need to be modified for future phases that were not included within the demonstration project
- Complete the study with the final report by November 15, 2006 for submission to the Coastal Hazards Commission
- To identify all the coastal structures the state either owns or has responsibility to maintain for the eight communities 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 Federal structures were identified but no assessment of conditions or priority was performed.
 - o Structures that were determined to be private were not included.
 - 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".



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- 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
 - 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. No investigation of state archives was performed. Research
 at MA DEP Chp 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-PPP-BBB-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

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Town of Hingham

<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 the state.

<u>Structure Ownership</u>: 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 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.



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Structure Material: The identification of the coastal structure's material of construction was performed and represents the primary material. Stone structures consisted of both mortared and nonmortared conditions.

Structure Height: 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.

Priority Rating: 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.

FEMA Zone and Elevation: 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.



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Structure Comments: 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 were 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.

Town Documents: 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.

<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 is 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



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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.
- 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.



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• 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.

<u>Revetment Structures</u> – 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.

<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	liminary ondition sessment	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. Stable landform (beach, dune or bank). Adequate system exists	None
В	Good	to provide protection from major coastal storm 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	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 wind or wave damage to landform exists. Landform	Moderate
		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.	Мајот
		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

Pri	eliminary ority Level ssessment	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 Term Planning Considerations		
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		



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CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

EXHIBIT C

September 14, 2006

REPAIR / REHABILITATION COSTING DATA

Cost per linear foot of structure

STRUCTURETYRE	STRUCTURE MATERIALS	STRUCTURE HEIGHT	A	B ST	RUCTURE CONDITION R	ATING D	Ę.
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
	7	5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
	a.	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
		10 To 15 Feel	\$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
COASTAL 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
COASTAL DUNE	A COURT	5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
	Hall Shows	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
NEVE I MEN		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
GROIN	STONE	Under 5 Feet	\$0	\$157	\$664	\$1,328	\$1,460
		5 To 10 Feet	\$0	\$157	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$157	\$1,564	\$3,128	\$3,392
		Over 15 Feet	\$0	\$157	\$2,468	\$4,937	\$5,333

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



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Section II

Town of Hingham

Community Findings



Section II - Community Findings - Town of Hingham

COMMUNITY DESCRIPTION

The Town of Hingham consists of a land area of 22.5 square miles out of a total area of 25.0 square miles and had a population of 19,882 in the 2000 census. The Town is located on the South Shore of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline is 10 miles that are protected by the Hull peninsula from open ocean waves. 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 Hingham, there were 34 structures which had public, state or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 4 in Section III 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 Hingham

	Total		Stri	icture Condit	ion Rating		Total Length
Primary Structure (1)	Structures	Α	B	C	D	F	(feet)
Bulkhead / Seawall	19	2	8	7	2		6260
Revetment	13		6	5	2		6214
Groin / Jetty	2		1	1			155
Coastal Dune	•						
Coastal Beach							
	34	2	15	13	4		12629

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 Hingham's case there are a total of 32 structures which would require approximately \$6.8 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 \$1.4 million would be required to upgrade the Town's coastal protection.



STRUCTURE REPAIR	/ RECONSTRUCTION COST	- Town of Hingham
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	Total	Total Structure Condition Rating							
Primary Structure (1)	Structures	Α		В	С		D	F	Total Cost
Bulkhead / Seawall	19		\$	554,076	\$3,105,264	\$	473,616		\$ 4,132,956
Revetment	13		\$	501,039	\$1,134,168	\$	694,340		\$ 2,529,547
Groin / Jetty	2		\$	10,210	\$ 108,108				\$ 118,318
Coastal Dune									\$ -
Coastal Beach									\$ -
	34	\$-	\$ 1	1,065,325	\$4,347,540	\$	1,367,956	; -	\$ 6,780,821

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 Hingham the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Hingham

	Total	Total			Structure Condition Rating					
Primary Structure (1)	Structures	A		В	<u> </u>		D	F		Total Cost
Town Owned	26		\$	995,183	\$3,982,750	\$	473,616			\$ 5,451,549
Commonwealth of Massachusetts Federal Government Owned	6		\$	55,292	\$ 244,079	\$	894,340			\$ 1,193,711 \$
Unknown Ownership	2		\$	14, 85 0	\$ 120,711					\$ 135,561
		_								\$ -
	34	\$-	\$	1,065,325	\$4,347,540	\$ 1	,367,956	\$	-	\$ 6,780,821

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 which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Hingham'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.

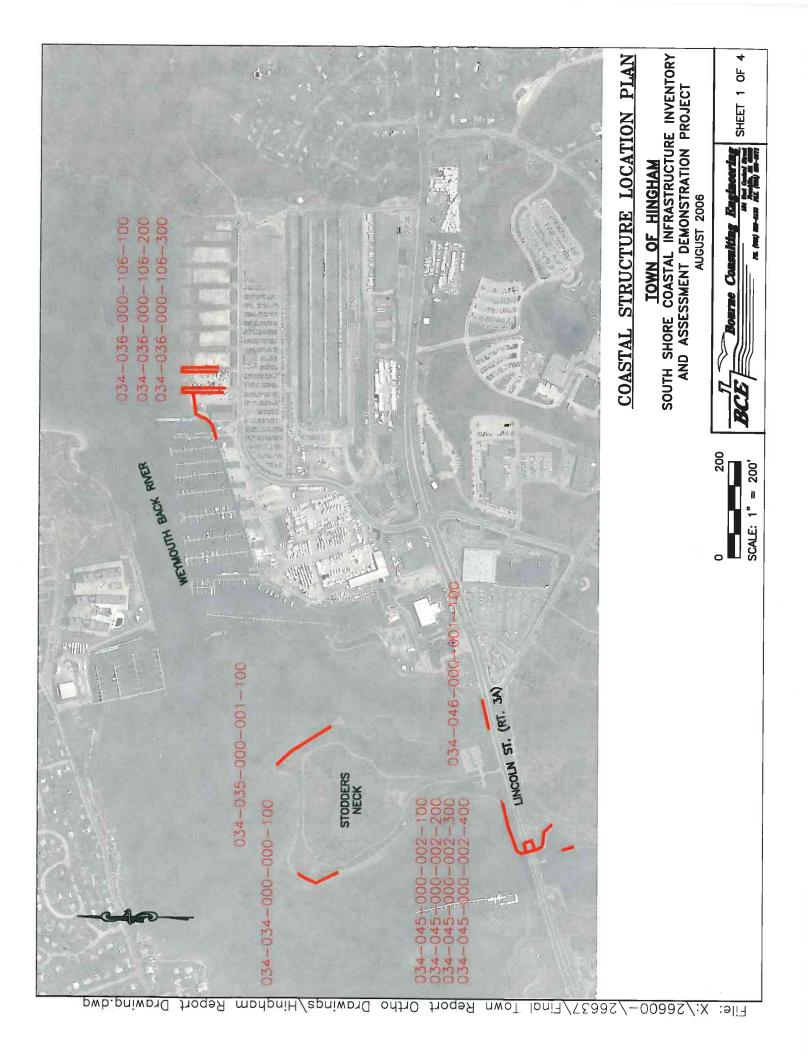


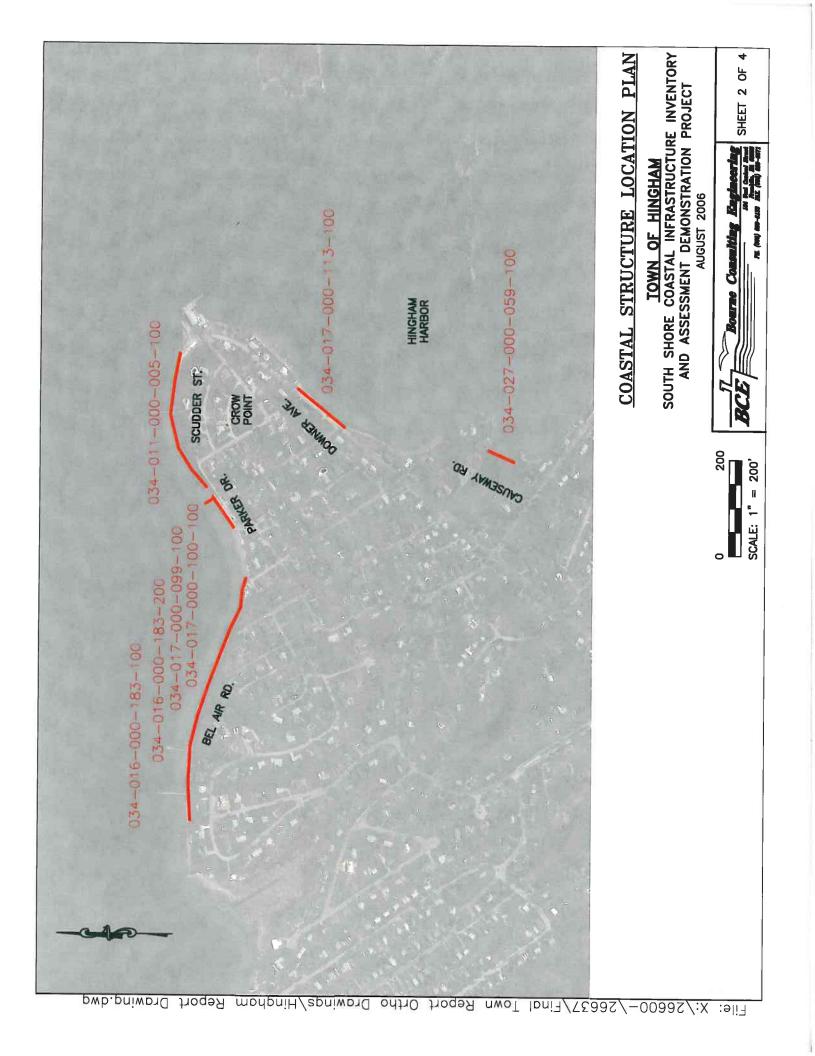
Section III

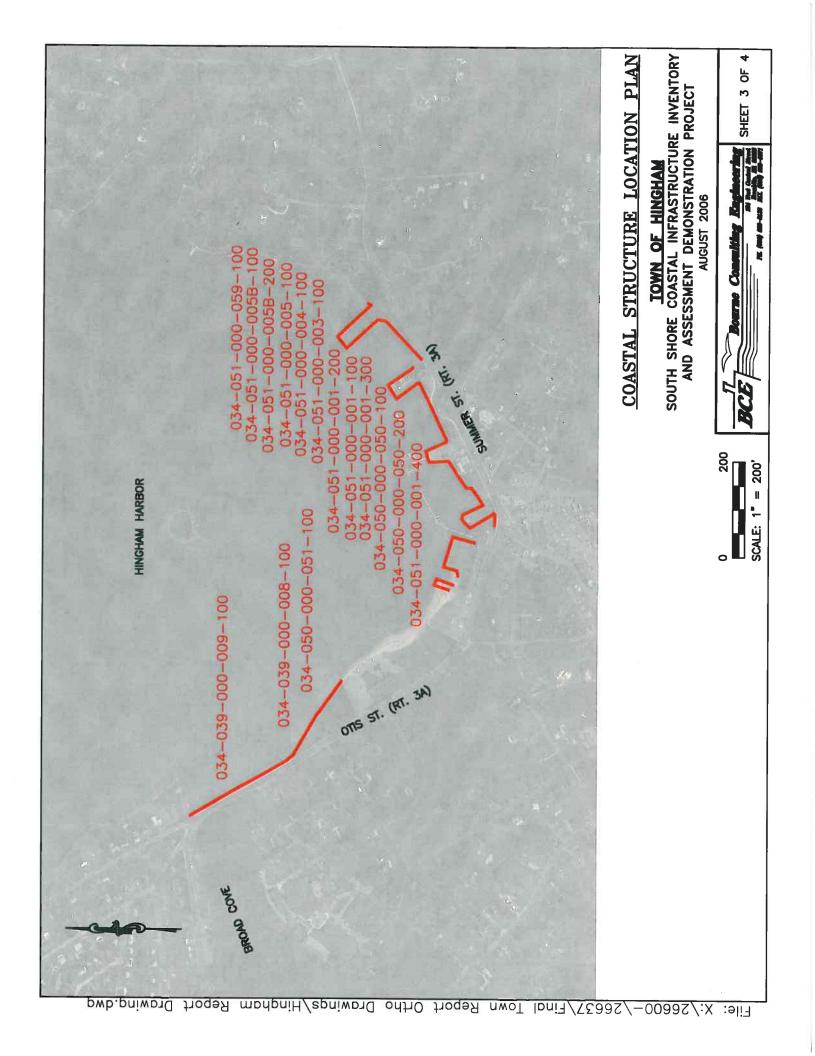
Town of Hingham

Structure Assessment Reports









Structure Assessment Form

Town: Hingham

Structure ID: 034-011-000-005-100

Property Owner:		Location	:	Date	2:	
Local		Scudder S	t.		8/16/2000	
Presumed Structur	re Owner:	Based On	Comment:	Į.		
Local			ntract Drawings	the second secon	aye and a second and a second	
Owner Name:		Enviset Ct	marking December	E-David I B		
Hingham	/	Earliest Str	ructure Record:	Estimated Recons	truction/Repair Cost: \$157,865.00	
	The state of the s	Charleston delinen der delin landele delin delin delin delin ori reconstituta del delin de	2000 vo 2000 hall to blocked in vindentamen yn den springen regnerlen af 16 och dels hall to block	Normal entritorior manufactura fortical destination and the languages of the company of the production of the company of the c	\$157,000.00	
ength: Top I	Elevation: FIRM Map 2	one: FIRM Map Ele	vation:	THE ALL OF THE CHARLES CONTROL AND AN ADMINISTRATION OF THE SPECIAL CONTROL OF THE CHARLES CONTROL AND ADMINISTRATION OF THE CHARLES CONTROL AND ADMINISTRATION OF THE CHARLES CONTROL OF THE CHARLES CONTROL OF THE CHARLES		
1005		V4	14			
Feet Feet I	NAVD 88	Feet	NGVD	A CONTRACTOR		
Primary Type:	Primary Material:	Primary Heigh	nt:	大学		
Revetment	Stone	10 to 15 Feet				
Secondary Type:	Secondary Material:	Secondary He	ight:			
Structure Summar	v :				W. C.	
laced rip rap slop	pe along steep earth bank. 45	degree slope toed int	o cobble beach. 5 f	eet wide crest. Stone size is 1 to 3	ton.	
Condition	В		Priority	III		
Rating	Good		Rating	Moderate Priority		
evel of Action	Minor		Action	Consider for Active Project In	nprovement	
Description	Structure observed to exhib			Listing		
	problems, superficial in natu to landform is present. Stru		Description	Inshore Structures with potential for Infrastructure Damage and/or Limited		
	adequate to provide protect	ion from a major		Residential Dwellings (<1 dw		
	coastal storm with no dama to prevent / limit future dete			100 feet of shoreline)		
	life of structure.					
THE STATE OF THE PARTY OF THE STATE OF THE S		tra statistikati semilani iposi propragnaj nigri iposi iposi iki kita kiliko-statisla pa setitopoksi tis minja	interviewedenskarlakskaankriikkinklakska sekset meksyssysser oklaatskarlaks	TESSÁÍ dalaf mannangen gengelgerfrance í kal í chá skátri sálduráta í nætt á hittinkk stimuthank prot mig er hay sker þeississens viðak þá skalandi.	or Address Add	
The state of the s	Mitter VIII (1997) of the College of	от Стин — дорогия (подрагий подворить и оброждений и бали вести до батора дрого возгото одрожного дрого.	Milliammaerinakonna kinnikaininki farmikikan orom-dinika 2019 ja 196 nä onikollosaasoikin	nterer in mengalakhingan para masarambian minambanan pada selam terera da Kitting depada depina da hawakha makambian debarangan an masara terera da Kitting depada depina da hawakha makambian debarangan an masara terera da Kitting depada depina da hawakha makambian debarangan an masara teresa da kitting depada da hawakha makambian da hawakha ma	ktyramininga dysamueltetimologicida. Historia silli sykti fersegys, in Asse, bis i edissi si	
tructure Imag		Structure Docum				
34-011-000-005-		MA DPW			-005-100-DCR1A	
	100-PHO1B.jpg	MA DPW	SEP 1956 PR		-005-100-DCR1B	
				OPOSED SHORE 034-011-000		
	100-PHO1C.jpg	MA DPW	APR 1957 PR	10703ED 3HORE 1034-011-000	-005-100-DCR1C	
	100-PHO1C.jpg	MA DPW MA DPW	APR 1957 PR	<u></u>	-005-100-DCR1C -005-100-TWN1A	
34-011-000-005- 34-011-000-005-	100-PHO1C.jpg		APR 1957 PR	034-011-000		

Structure Assessment Form

Town: Hingham

Structure ID: 034-016-000-183-100

Property Owner:		APRILLED DO NOT THE TAX AND ADDRESS OF THE PARTY OF THE P	Location			Date:
Local			Bell Air Ro			8/16/2006
Presumed Structur	e Owne	r:	Based On	Comment:		•
Local			DCR - Col	ntract Drawings	The state of the s	
Owner Name:			Earliest St	ructure Record:	Fctima	ated Reconstruction/Repair Cost:
Hingham		/		1958	Estille	\$31,878.00
onath: To- F	Joseph -	in vivil salva (i. d. V vivil vivil vivil salvanina consumptima (vivil salvanina tida katala vivil vivil salva Bi vivil vivil vivil vivil vivil vivil salvanina tida vivil vivil vivil vivil vivil vivil salvanina tida vivil	er kur s Neu Salvas ur Valle Malay Hallahalassa kanangad di presi di taka 1996 filmilakan kadada ada da kanangad di Bahanassa kanangar kur valle da salahalassa kanangad kanangan da kananga kanangan kanangan kanangan kanangan k	860 i inner Ngalango A688869 da dahir palabepat ya ka 1587 pili ya 561, ya mananaga da ji Mahain fara palabepat da da indonesia palabepat ya 1587 kwa 1587 kwa 1587 kwa 1587 kwa 1587 kwa 1587 kwa 1587		erilden navkerdelskiffer for bleken militær kleinske kleinske videt for forsæt in vog vær er mæller og skrive militære samt Skrivenskrygen samt skriven videt in skriven kleinske skriven for skriven skriven skriven skriven skriven skri
ength: Top E	levation	FIRM Map 2	one: FIRM Map Ele	15		TO A VIEW
	NAVD 88			NGVD		
rimary Type: Bulkhead/ Seawall	<u> </u>	Primary Material: Concrete	Primary Height 5 to 10 Feet	IC:		The state of the s
Secondary Type:				ight		
Revetment		Secondary Material: Stone	Secondary He	ignt:	Expansion.	
Structure Summan			1		444	
		es high) behind placed	rin ran slone Concre	ete wall is tilted outch	ore clightly with come	cracking. Revetment with 1
Level of Action Description	problem to land adequate coasta to prev	ure observed to exhib ms, superficial in natu form is present. Struate to provide protection I storm with no dama vent / limit future deter structure.	re. Minor erosion octure / landform on from a major ge. Actions taken	Action Description	High Value Insho for Infrastructure	Project Construction Listing re Structures with Potential Damage and/or Moderate al Dwellings (1-10 dwellings et of shoreline)
tructure Image			Structure Docum			
34-016-000-183-1			MA DPW			34-016-000-183-100-DCR1A
34-016-000-183-1			MA DPW			34-016-000-183-100-DCR1B
4-016-000-183-1			MA DEQE	SEP 1972 PRO	-	34-016-000-183-100-DCR1C
4-016-000-183-1	OH4-OU	וטר.jpg	MA DPW		0:	34-016-000-183-100-TWN1A
4 040 000 400 1	00 5:10	4			_	
34-016-000-183-1	00-PHO	1E.jpg	MA DPW	APR 11 198	<u>-</u>	34-016-000-183-100-TWN1B 34-016-000-183-100-TWN1C

Structure Assessment Form

Town: Hingham

Structure ID: 034-016-000-183-200

Presumed Structure Owner: Based On Comment: DCR - Contract Drawings	Property Owner:	A Principal Control of the Control o	Location:	jahandan talastalapusi, vapus sa na pri <u>ada hall</u> sa hadioista assa na an san sa na	Date:
Downer Name: Downer Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost:	Local	and the second s	Bell Air Rd.		8/16/2006
Downer Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: FIRM Map Zone: FIRM Map Zone: FIRM Map Elevation: 1520	Presumed Structur	re Owner:	Based On Com	ment:	
ength: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 1520	Local				
ength: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 1520	Owner Name:		Farliect Structu	ira Dacord:	Estimated Decempts within / Density Costs
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Stone Secondary Height: Stone Secondary Height: Primary Type: Secondary Material: Secondary Height: Primary Type: Sec	Hingham	7	Edillest Structu	teritoria de la companya del companya de la companya del companya de la companya	
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Revertment Stone 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Fracture Summary: Recer in prap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Condition B Priority IV Rating Good Rating High Priority Revel of Action 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.			A STATE OF THE STA		Selection enterthinis and parties of the removal of
Primary Type: Primary Material: Primary Helght: Stone 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Placed rip rap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Primary Helght:					
Revetment Stone 5 to 10 Feet		NAVD 88	Feet NGV	D	
tructure Summary: Acced rip rap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Condition B			THE WALL THE THE PARTY OF THE P		
tructure Summary: Placed rip rap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Condition B Rating Good Rating 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 s horeline) The priority of the priority of the priority of the project Construction Listing Occasional Construction Construction Consideration Construction Construction Listing Occasional Construction Const		,			
Paced rip rap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Condition B	secondary Type:	Secondary Material:	Secondary Height:	_	
Paced rip rap slope (1 vertical to 2 horizontal) using 1000 to 2000 lb stones. Toed into cobble beach. Earth slope continues up inshore of evertment. Condition B	· · · · · · · · · · · · · · · · · · ·		1		
Rating Good Ration Minor Consider for Next Project Construction Listing Action Consider for Next Project Construction Listing Minor 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. Rating Action Consider for Next Project Construction Listing Minor Description High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of s horeline)			1000 to 2000 lb ston	es. Toed into cob	oble beach. Earth slope continues up inshore of
Rating Good Minor Consider for Next Project Construction Listing Action Consider for Next Project Construction Listing Action Pescription 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. Rating Action 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 s horeline)	Condition	В		Priority	IV
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. Description High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of s horeline)	Rating	Good			
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. for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of s horeline) impacted / 100 feet of s horeline)	Level of Action			Action	Consider for Next Project Construction Listing
ructure Images: Structure Documents:	outer species	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	inor erosion / landform m a major ctions taken	Description	for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings
Sadectare pocuments.	tructure Image	es: Stri	ucture Document	·C·	
			addi o boddiidii		

Structure Assessment Form

Town: Hingham
Structure ID: 034-017-000-099-100

Property Owner:		Location:		Date:
Local		Bell Air Rd.		8/16/2006
Presumed Structur	e Owner:	Based On Co	omment:	,
Local		Property Ov	vnership	
Owner Name:		Farliect Stru	cture Record:	Estimated Reconstruction/Repair Cost:
Hingham	/	Larilest 3tro	0	\$40,379.00
		dende Philipside Philipside with Philipside and Table generation properties of the Control States have about the control that the Control States have been also been a	idd Medd e channair y nglo o sel allan dalah Nadakor siniak diy sa dengan geligasi melala dalah dalah se Calah Millessi kesar menga Majilah dalah selalah kara menah kesar dalah selalah selalah selalah dalah selalah	
Length: Top E	Elevation: FIRM M	lap Zone: FIRM Map Elev	ation:	
	NAVD 88	Feet N		
Primary Type:	Primary Materia			
Bulkhead/ Seawall	The state of the s	5 to 10 Feet		
Secondary Type:	Secondary Mate		ıht:	
		, nois		
Structure Summary	/:	25		
Concrete seawall v	vith wave return face. M	inor spalling and deterioration	on of outshore face.	Weep drains about 8 feet on center.
Condition	В		Priority	III
Rating	Good		Rating	Moderate Priority
Level of Action	Minor Structure observed to a	whihit you mine-	Action	Consider for Active Project Improvement Listing
Description	Structure observed to e problems, superficial in to landform is present. adequate to provide procoastal storm with no d to prevent / limit future life of structure.	nature. Minor erosion Structure / landform otection from a major	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
tructure Image 34-017-000-099-1		Structure Docume		POSED SHORE 034-017-000-099-100-DCR1A
	00-PHO1B.jpg	MA DPW	JCE 1900 JFRO	034-017-000-099-100-DCR1A
34-017-000-099-1				
34-017-000-099-1 34-017-000-099-1	00-PHO1C.ipa	MA DPW	JUL 1966 PRO	POSED SHORE 034-017-000-099-100-COE1A

Structure Assessment Form

Town: Hingham Structure ID: 034-017-000-100-100

Property Owner:	and to seem that to consider the selection of the selecti	Location		alakkilat tilde til 49,449, mylleplig ette år — fallet exister trolumine ettember i 2,9600 mm	Date:	
Local		Bell Air R	d.	A. Ole,	8/16/2006	
Presumed Structur	e Owner:	Based On	Comment:			
Local	,		Ownership			
Owner Name:		Farliget St	tructure Record:	Eat	rimated Peronstruction/Penair Cost	
Hingham	7	Lamest 30	0	EST	timated Reconstruction/Repair Cost: \$10,210.00	
	Standard Spile of the Office of Contract o	andistrantenderen, heleve der at det sekkeliket den skildeliket helevalet older skildeliket older skil	e Billiotaky (Steward Ngishikeladid (AAAA) (State (Shilarki Ngosia nisylagad Air Aruse,) Commission (State (Shilarki Ngosia) (AAAA) (Shilarki Ngosia nisylagad Air Aruse,)	Printer Cult follow Advisor August (Advisor Au	managean freeh African Facility of SEASACCESS AND 2001 CESS CESS CESS CONFORMATION CONFORMATION TO THE PROPERTY OF THE WAY TO THE PROPERTY OF	
ength: Top E	Elevation: FIRM Ma	Contractor to the Contractor of the Contractor o				
	NAVD 88	V4	15			
			NGVD			
rimary Type: roin/ Jetty	Primary Material: Stone	Primary Heig Under 5 Feel		国际		
	,			1		
econdary Type:	Secondary Materia	Secondary He	eignt:			
ructura Cuman	3	j				
ructure Summary aced rip rap groi	y : n with 1 to 2 high side slop	es. Crest about 5 feet v	wide Annrovimate	ly 1000 lb stones		
	2 to 2 mgm side slop		maci approximate	17 2000 ID Stories.		
on ditio-	В		n .			
ondition ating	Good		Priority Pating	III Moderate Prio	rity	
evel of Action	Minor		Rating Action		active Project Improvement	
escription	Structure observed to exi			Listing		
	problems, superficial in n to landform is present.	ature. Minor erosion Structure / landform	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited		
	adequate to provide prote coastal storm with no dar	ection from a major		Residential Dv 100 feet of sho	vellings (<1 dwelling impacted /	
	to prevent / limit future de			TOO IEEL OF STR	oromic)	
	life of structure.					
province and the second of the	e till er stiller etter sjore still et johnstide het had mermungensioner er ef anskalenhenhenher het bekinnin De still et i stille et er som er gjerninne her førmenige e Mundelle-keskel ine hensisenske sam er nakeren	erretakon erretakon Erretakon erretakon e	essalet åd erhifdeldet framsyr unner haps ha kilder udelest kalaut erdenet ens semmengel, kaj musek blenden vikenske sem "mer e grystledet" sem lend uldet i kreals mit har, verrytterreld til v	etti (" vilateri kikketittillikki "suo") tillanni manni (" kiperi njeri kiketilisti andalaki titikki katalaki Vilatikki teriki (" kikhitesi sitem kitim kitim kitim kitim (" andalami kitimisi sitemisi masik mahkumbi kitim	Ab dah samb bahadi meruhpungan yak sabuhapida pada dah bahada sebabah sembanggan merusian salam 1990 mengan sa Sabuhati meruna mengapi penyadakan dibabah sebada sebada sebagai penyada sebagai sebaga	
ructure Image	es:	Structure Docur	ments:			
4-017-000-100-1		MA DPW		PROPOSED SHORE	034-017-000-100-100-DCR1A	
		MA DPW	·		034-017-000-100-100-TWN1A	
		MA DPW	JUL 1966 F	PROPOSED SHORE	034-017-000-100-100-COE1A	
		,	*			

Structure Assessment Form

Town: Hingham
Structure ID: 034-017-000-113-100

Property Owner:	The second secon	Location:	rer-reser venezunt e 1647 biler till dannellen mykligen er elgyfil i 1856 fil relationen repensiolistische In	ek wan nashi na manaka ka	Date:
Local		Downer Ave.			8/16/200
Presumed Structur	re Owner:	Based On Con	nment:		,
Local		Property Own	ership		
Owner Name:		Earliest Struct	ure Decord:	Estimated	December which (December Cont.)
Hingham	/	Lamest Struct	0	Estimated	Reconstruction/Repair Cost: \$322,575.00
	Committee of the commit	Profesional years are statistically war years out of the distribution contamples as level of the project project of the distribution contamples as level of the project project of the distribution contamples as level of the distribution of the dis	emieni kikki kizardishi kida akizikida kizana asenganya, eto (2,7 kpc) (4,7 kpc) (4,7 kpc), senat Mejerbe kida meningi kidika dishida kida kida kida medi kerbenan samerinda hekerin kerdishi	dityaning geran salah silan ida selenti ontah da malika salah selekti da data atau da salah salah seperanya penda 200 menungan selekti selekti da selekti selekti selekti selekti selekti selekti selekti selekti selekti selekt 200 menungan selekti s	
Length: Top E	Elevation: FIRM Map Zone: V4	FIRM Map Elevati			S. A. CO.
. 1	NAVD 88		14		
		Feet NG\	70		4-1
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Height: 5 to 10 Feet			Table 140
		,			
Secondary Type:	Secondary Material:	Secondary Height	:	The state of the s	
Characteristic Commence					4
Structure Summary Stone seawall mor	tared with concrete. Base of wall h	as concrete mortar	wached out (appr		A Balair Collins
behind seawall wh	ere fill loss has occurred. Road loca	ted approximately	5 feet behind and	multiple houses beyond ro	pad.
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action Description	Moderate Structure is sound but may exhibit		Action		ject Construction Listing
Description	deterioration, section loss, cracking undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection is coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a mistorm. Actions taken to provide admaterial for full protection and extending 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	for Infrastructure Dam	wellings (1-10 dwellings
Structure Image 034-017-000-113-1 034-017-000-113-1	00-PHO1A.jpg	cture Documen			

Structure Assessment Form

Town: Hingham

Structure ID: 034-027-000-059-100

Property Owner:	erferensisten mandjungstätlicher i teachesis vassis yang mengelappa philiphinessis i mandamaniphysis sese mahai berinde derinde d	Location:	ekuntekenephilikai kissaattakaikiskon va turtyineen ja eritta vuotaneessikysetyineesse va	akaarunteelusta saakineeluseatasaatasaa ora seerratusaatatataataataataataataataataataataataa	alid 44 to a discontinuo and 175%, 1994, and inches and inches and a second section of the second second second
Local	The state of the s	Causeway Rd.			8/16/2006
Presumed Structure	e Owner:	Based On Com	ment:	,	
Local		Property Owne		the shortest consequence of the property of the state of	
Owner Name:		Earliest Structu	re Pecord:	Estimated Reserve	mushion / Donnie Cont.
Hingham	7	Lamest Structu	0	Estimated Reconst	ruction/Repair Cost: \$309,672.00
	order miller from the second of the second o	nodatof dashifu iyo hafi qohiya oʻrdandi saddiddi oʻrdada oʻraalinasi iso ma'li iyo qoʻrda dobbo codhisanining nag Intaliasi dashifu iyo hafi qoʻrda qoʻrda qoʻrda qoʻrda dashirasi isolik oli qoʻrda isolik obo oʻrda dashira oʻr	hada najirniyat setiy vi weeks sinay qot waa kaar ito yah kidaliidid e elimbib waxaa da bayla walan waxaa kada jada kit u aha ita bay o canca coo elii eliiga Qaa oo ita kaasaa kaa waxaa ka	Addition that all the contract of the contract	notifulgiya Mikawa indinassi ya da asar isa
Length: Top E	levation: FIRM Map Zone				
	IAVD 88	Feet NGVI	2		
			,		
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Height: 5 to 10 Feet	for c	117115	
Secondary Type:	Secondary Material:	,		ALAND TO SERVICE	
secondary Type:	Secondary Material.	Secondary Height:	1		
Structure Summary	, .	4		6 A (6)	
Rating Level of Action Description	Poor Major Structure exhibits advanced level deterioration, section loss, crace undermining, and/or scour. Structure deterioration, section loss, crace undermining, and/or scour. Structure is should be monitored until repairs/reconstruction can be intaken to reconstruct structure to capacity to resist a major coast Landform eroded, stability threat Landform not adequate to providuring major coastal storm. Act recreate landform to adequate is protection from a major coastal	cking, spalling, ucture has ge and possible torm. Structure nitiated. Actions o regain full gal storm. attened. Ide protection tions taken to limits for full storm.	Rating Action Description	Moderate Priority Consider for Active Project Im Listing Inshore Structures with potent Infrastructure Damage and/or Residential Dwellings (<1 dwe 100 feet of shoreline)	ial for Limited
Structure Image		tructure Document	s:		
034-027-000-059-1					
034-027-000-059-10	uv-rhOis.jpg				

Structure Assessment Form

Town: Hingham
Structure ID: 034-030-000-011-100

Property Owner:	terdinoriematike tehtin 1949 till terdinika jallegilende hold in effectiva i 1960 till till till till till till till til	Location:	Date:
Local		Martins Lane	8/16/2006
Presumed Structur	e Owner:	Based On Comment:	,
Unknown			
Owner Name:		Earliest Structure Record:	Ectimated Reconstruction/Powers Cont.
	/		Estimated Reconstruction/Repair Cost: \$14,850.00
	levation: FIRM Map Zone	The second secon	recommendation during recommendation during recommendation of the contraction of the cont
225		11	
	NAVD 88	Feet NGVD	The state of the s
Primary Type:	Primary Material:	Primary Height:	
Revetment	Stone	Under 5 Feet	
Secondary Type:	Secondary Material:	Secondary Height:	A .
Structure Summan			
Condition Rating Good Level of Action Description Structure observed to exhibit very problems, superficial in nature. Min 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 erosion ure / landform from a major Actions taken	None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
Structure Image 034-030-000-011-1 034-030-000-011-1	00-PHO1A.jpg	tructure Documents:	

Structure Assessment Form

Town: Hingham

Structure ID: 034-030-000-011-200

Property Owner:		Location:	mer yaren militir migan melar yasih dah dalam plasasa da jangungkar pada pagar da jangi 1.6 a g	Date:
Local		Martins Lane		
Presumed Structur	re Owner:	Based On Cor	mment:	,
Unknown	·		ACT SET MINERAL STREET, STREET	The second secon
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstruction/Repair Cost
	/		0	\$120,711.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevat	mulatikas Calabaniusia peleperatuki yang adalah peratuki pengangan dalah pelaperatuki pelaperatuki pelaperatuk Ditaman pelaperatuk pelaperatuk pengang pengalah pengan pelapuratuk pengangan pelapuratuk pengangan pelaperatuk	Control of the Contro
284	A3		11	
Feet Feet N	NAVD 88	Feet NG	VD	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Stone	Under 5 Feet		
Secondary Type:	Secondary Material:	Secondary Heigh	t:	
Structure Summan			V2.04202	vement of top stones near south end (overhaul lower
structure to provide full protection		g, spalling,	Priority Rating Action Description	Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
	moderate damage. Actions taken structure to provide full protection coastal storm and for extending life	vith little to to reinforce from major e of		Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
	moderate damage. Actions taken structure to provide full protection	vith little to to reinforce from major e of damage to t be sufficient najor coastal dition		Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
	moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a n storm. Actions taken to provide ad material for full protection and extended the structure.	vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	nts:	Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
34-030-000-011-2	moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a n storm. Actions taken to provide ad material for full protection and extended and e	with little to to reinforce from major e of damage to t be sufficient najor coastal dition ended life.	nts:	Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 34-030-000-011-2 34-030-000-011-2 34-030-000-011-2	moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a n storm. Actions taken to provide ad material for full protection and extended in the store of th	with little to to reinforce from major e of damage to t be sufficient najor coastal dition ended life.	nts:	Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Assessment Form

Town: Hingham

Structure ID: 034-034-000-000-100

Property Owner:		- Notice of a control of the control	Location:	marcan over so tt ell le suktengur fryder meddald bledet fil i blegan makens over addi, ddi fren	alle die Andrikalissen von Philipped duis von Spiele in 1987 der Andrik der Steiner der Andrik der Spiele der Andrik der	Date:		
State			Stodders No	Stodders Neck			8/16/2006	
Presumed Structur	re Owner:		Based On C	omment:				
State			Property Ov	vnership	THE PARTY OF THE P	Constitution of the second	A STREET CONTRACTOR OF THE CON	
Owner Name:			Farliect Str	Earliest Structure Record:		d Doconaturati	on/Donniu Cont	
AND DESCRIPTION OF THE PARTY OF	Commonwealth of Mass.		Luniest Stre	0	Esumated	Reconstruction	on/Repair Cost: \$375,976.00	
	and the second s	e o de la constitución de la con	rhilds of the SEA STANDER of white policy of the AC Standard page to be also as a similar was The Committee of the SEA STANDARD COMMITTEE COMMITTE	er en	Bood walk for the other professional and the other selections are supported to the other selections.	Page - Amala I doctobbili del pacazio este este essenzio. Il 1970 del confessione del particologica del page del p		
Length: Top E	Elevation:	FIRM Map Zor	ne: FIRM Map Elev	ation:				
	NAVD 88		Feet N		410	A STATE OF	0.00	
		one Material			DANICO	74		
Primary Type: Revetment	Stor	nary Material:	Primary Height 5 to 10 Feet		300			
Secondary Type:	,	ndary Material:		.b.t.				
Secondary Type:	3000	idal y Material.	Secondary Heig	inc.				
Structure Summan	· ·		,		6. 106年,其本			
The second secon	And the second second second second	earth slope at me	ean high water. Ston	e size 50 to 300 lb				
Condition	o structures in	length with 1000	to 2000 lb. stones. T	hese are satisfactory Priority	y condition.			
Rating	Poor			Rating	None			
Level of Action	Major	hibits advanced le		Action	Long Term Planning			
Description	deterioration undermining strong risk o failure during should be m repairs/recor taken to reco capacity to re Landform en Landform no during major recreate land	a, section loss, cra b, and/or scour. St f significant dama g a major coastal sonitored until enstruction can be in construct structure to esist a major coast oded, stability three that adequate to provi- coastal storm. Act ofform to adequate orm a major coastal	cking, spalling, tructure has ge and possible storm. Structure initiated. Actions to regain full stal storm. statened. vide protection etions taken to limits for full	Description	No Inshore Structure Units Present	3 of Iveside III	ai Dweiling	
Structure Image 034-034-000-000-1 034-034-000-000-1 034-034-000-000-1	00-PHO1A.jpg 00-PHO1B.jpg	9	Structure Docume	ents:	ermangegelde de gegente om de en	and all the things proved the condition and all the condition and all the conditions are conditions and the conditions are conditions and the conditions are conditions are conditions are conditions and the conditions are conditionally conditionally conditions are conditionally conditionally conditions are conditionally conditionally conditions are conditionally conditi	engel material e agretionique de un on engle e el engle entre en	

Structure Assessment Form

Town: Hingham
Structure ID: 034-035-000-001-100

Property Owner:	llari Ar Millellar dessenligt 4,5-rikk flessid fråssid rumina invitrysjörset 14,000-säte Chresonosa	kantilaka mahdin auntah Shindh Alah Lasah "disa ngangpilak kantilaka dimeksilak disebengan salah disebenya	Location:	Date:
Local		The state of the s	Stodders Neck	8/16/2006
Presumed Structur	re Owner:		Based On Comment:	,
Local		THE RESERVE OF THE PARTY OF THE	Property Ownership	
Owner Name:			Earliest Structure Record:	Ectimated December which / Densir Contr
Hingham			0	Estimated Reconstruction/Repair Cost: \$55,255.00
Length: Top E	Elevation: FIRI	M Map Zone: FII	RM Map Elevation:	Add Marked Berger (Marked Berger) (Marked Berg) (Marked Berger) (Marked Berger
Feet Feet I	NAVD 88		Feet NGVD	A CONTRACTOR OF THE PARTY OF TH
Primary Type: Revetment Secondary Type:	Primary Mat Stone Secondary M	5 (imary Height: to 10 Feet condary Height:	
Structure Summar				n (about half of length). No evidence of scour.
Condition Rating Level of Action Description	B Good Minor Structure observed a problems, superficiate to landform is prese adequate to provide coastal storm with n to prevent / limit futulife of structure.	il in nature. Minor e nt. Structure / land protection from a r o damage. Actions	erosion dform major s taken	None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
Structure Image 034-035-000-001-1 034-035-000-001-1	00-PHO1A.jpg	Structui	re Documents:	

Structure Assessment Form

Town: Hingham

Structure ID: 034-036-000-106-100

	THE COURSE OF THE PARTY OF THE	Location:		L	Date:	
Local		Weymouth Back	River		8/16/2006	
Presumed Structur	re Owner:	Based On Comment:				
Local		Property Ownership			B) - 1/2	
Owner Name:		Farliect Structur	Earliest Structure Record:		construction (Parair Cart	
Hingham	7	Larilest Structur	0	Esurnated Rec	construction/Repair Cost: \$664,620.00	
_ength: Top E	Elevation: FIRM Map Zone	isakandiri oleh ergilde iri hasil den dasa diamatan senegali sili dap dastan yanganyan hiji sajah daga Manadan iri beli dasa diamata dan sasa diamatan iri digir ergi de dasa manadan yanga dasa dasa dasa dasa dasa	di bion'i seda takun'i she dali podali pidali sali salika ana anna menasa taka kada salika salika salika salik Malaisi salika salika sengali salika sal	da veldadele kristenske projekt projek	rrisson Handingsinnsssinden konnungsysser var en	
530	Elevation: FIRM Map Zone	-	4.6		5.565	
Feet Feet I	NAVD 88	Feet NGVD				
Primary Type:	Primary Material:	Primary Height:			Tit	
Bulkhead/ Seawal		10 to 15 Feet			a management	
Secondary Type:	Secondary Material:	Secondary Height:				
					Maria I	
Structure Summar	y:					
Rating Fair Moderate Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structute to 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 mistorm. Actions taken to provide admaterial for full protection and external structure.		oit minor ing, spalling,	Rating Action Description	None Long Term Planning Con No Inshore Structures or Units Present		
	to withstand major coastal storm moderate damage. Actions take structure to provide full protection coastal storm and for extending structure. Moderate wind or wall landform exists. Landform may to fully protect shoreline during storm. Actions taken to provide	with little to in to reinforce in from major life of we damage to not be sufficient in major coastal addition				

Structure Assessment Form

Town: Hingham

Structure ID: 034-036-000-106-200

Property Owner:	macro-ara-aramaning-lo-lo-lo-lo-lo-lo-lo-lo-lo-lo-lo-lo-lo-	Location:	tembelataadik Straden kilomorijoonajoonaadin eeterori tareteksik histolisik salahaja ja ja ja ja	ridea Nobe & velv dien klaimmere, klaimtel del dat veldere, kan sond a partitala kan kan de veldere en en stembre blev de	Date:
Local		Weymouth	Back River		8/16/2006
Presumed Structure	e Owner:	Based On C	omment:		•
Local		Property Ov		and the second s	· ·
Owner Name:		Farliect Str.	octure Record:	Estimated D	- David
Hingham	/	Lamest Stru	0	Estimated Ri	econstruction/Repair Cost: \$136,937.00
		ordanis daanees in stakki ya dalad Afrika kalada ya saga salas sa s	egipassiko sehekkuli kilasa antoisik vari Vistoringak porrisa kila, ris 14400 kK kirildalilililililililililili Bilililililililil	000 Colombia (1874 - 1874 - 1878 - 1878 - 1874 - 1878 - 1874 - 1874 - 1874 - 1874 - 1874 - 1874 - 1874 - 1874 - 1886 Colombia (1874 - 1874 - 1878 - 1874 -	Toronomia y granna dada indirabel (diddordida datanggal) y a v v v v v v v v v v v v v v v v v v
Length: Top E	levation: FIRM Map Zone				
		4	12		NE STATE OF THE ST
	IAVD 88	Feet N			
Primary Type: Revetment	Primary Material: Stone	Primary Height 5 to 10 Feet			
•		,	-		
Secondary Type:	Secondary Material:	Secondary Heig	int:		
Sharehara Communication		1		Service Control	
Structure Summary Dumped rip rap slo	v : ope along bank. Stone size 100 t	o 1000 lbs		The second secon	73.
Condition	С		Priority	!!!	
Rating	Fair		Rating	Moderate Priority	
Level of Action	Moderate		Action	Consider for Active Proj	ect Improvement
Description	Structure is sound but may exhibit deterioration, section loss, crac undermining, and/or scour. Stru	king, spalling,	minor g, spalling, re adequate ith little to o reinforce rom major o of damage to be sufficient ajor coastal dition	Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impact 100 feet of shoreline)	potential for
	to withstand major coastal storm moderate damage. Actions take structure to provide full protectic coastal storm and for extending structure. Moderate wind or wallandform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and e	en to reinforce on from major I life of Ive damage to not be sufficient a major coastal addition			<1 dwelling impacted /
Structure Image			Mikandikan kemengan kadalah kecampi kanan Yusuka sebagai kemangan kemangan kemangan kemangan kemangan kemangan Kemangan Salah		PARAMETER STATE OF THE STATE OF
Structure Images: Stru		tructure Docume	ents:		
034-036-000-106-2	<i>3</i> 1 0				

Structure Assessment Form

Town: Hingham

Structure ID: 034-036-000-106-300

Property Owner:	r van der 1953-bedaugsten van de versche verschiede van 1966-der fer det betressen blassen bij de besteelste bedaugste verschiede ve	Location:	orweitrillind I model examination in experience sold inter-politic hebit intention of the Arm		Milder Anna and the Control of the C
Local		Weymouth Ba	ck River		8/16/2006
Presumed Structur	re Owner:	Based On Comment: Property Ownership Earliest Structure Record:		v	
Local					The state of the s
Owner Name:				Estimated Reconstruc	ction/Repair Cost:
Hingham			0		\$0.00
The second second second	Elevation: FIRM Map Zone:	FIRM Map Elevati	Official and self-un-official femous abayes must for a design from the con- central abundance of the control of	NP County Application (See "Address Education and Security County") (Address County Co	or Mark Professional Control of the
161	A4		12		4
	NAVD 88	Feet NGV	/D		
Primary Type: Bulkhead/ Seawal	Primary Material:	Primary Height:		AND THE PARTY OF T	111/2-
		Over 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height			
Stratetine Superior					2.00
Structure Summar Concrete seawall	y : with timber fender system. Minor cra	ackina in concrete o	an Wall face is n	ot even (constructed that way)	The second second second second
	The second of th	actually in corner case to	ap. Wall lace is it	ot even (constructed that way).	
Condition	A		Priority	III	
Rating	Excellent		Rating	Moderate Priority	
Level of Action	None		Action	Consider for Active Project Impre	ovement
Description	Like new condition. Structure expe- withstand major coastal storm with Stable landform (beach, dune or beach, dune of the storm of the storm of the storm of the storm.	out damage. ank).	Description	Listing Inshore Structures with potential Infrastructure Damage and/or Lir Residential Dwellings (<1 dwelli 100 feet of shoreline)	mited
Structure Imag e 034-036-000-106-3		cture Documen	nami dana dia mpangana pangangan dia dana dia mpangangan pangangan pangan pangangan pangan pangangan pangangan pangangan pangangan pangangan pangangan pangan pangangan pangan pangangan pangangan pangangan pangangan pangangan pangangan pangan panga		man ang sa da galain Talaing an at di a ci al di di aci a ci an ang ang an ang an an an ang an an an an an ang

Structure Assessment Form

Town: Hingham

Structure ID: 034-039-000-008-100

Property Owner:	hambalariskasuvetukaskinselintekusintova arusoi tinakinkakidekustasiakusisensäkuny ti kuutuvet ka-koolinessistekudi hilliketi Jassi	Location:	lí dádeláki Berkusztúkláhdái kökvárcáknal tali ne piekhnek ind nejneknek	ntinolateristä in musetatat eti 1944 useinulista konsik ele- isi onniken 1-sakonkon in musetusia automaan asun esen juuri on 1944 onniken ilinnisia ja ja sistembaa Date:	halfaghiring and the second analysis of the s
Local		Otis St. (Rt. 3A)		8/16/2006
Presumed Structur	re Owner:	Based On Comr	Based On Comment:		
Local		Property Owne	rship	- Contraction -	
Owner Name:	Owner Name:		re Record:	Estimated Reconstructio	n/Penair Cocts
Hingham	/		0	Estimated Reconstruction	\$258,258.00
	levation: FIRM Map Zone:	FIRM Map Elevatio	nica - Anni - Casanina - Anni - Casanina - Anni - Anni Anni - Anni	All Production for the servine season of the servine season of the servine ser	
430	V4	1	4		
Feet Feet N	NAVD 88	Feet NGVI)	THE PARTY OF THE P	
Primary Type:	Primary Material:	Primary Height:		A STATE OF THE STA	0.00
Revetment	Stone	5 to 10 Feet	I		
Secondary Type:	Secondary Material:	Secondary Height:			K
Structure Summary	/ :			a state of the sta	
Northern 100 feet Condition Rating Level of Action	is smaller stone and loose with som C Fair Moderate	e erosion.	Priority Rating Action	II Low Priority 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 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 an storm. Actions taken to provide admaterial for full protection and extending the structure.	minor 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 Lim potential for Significant Infrastructur	
Structure Image	00-PHO1A.jpg	cture Documents	5:		erentekki ili ber ili ber ili ere ili erentekki ili ber
34-039-000-008-1	00-PHO1B.jpg				

Structure Assessment Form

Town: Hingham

Structure ID: 034-039-000-009-100

Property Owner:	the first terminal teachers have been been been been been been been be	kistor milimete formalinintissäänin tuudossi kusi tu tehsi eläää kosija editossissajossig tuuleeljal	Location:	triur uttill kirklenstredis stelch sirke tilst en minnlere ermeske tild mådet fol å et di tre siss	alkaapuun tan 1991–240 460 2 Ashion must vihin deerkalkussa Lässa kussa kuun mosten alkaala	Date:
Local			Otis St. (Rt. 3	A)	Act of the supplemental and the	8/16/2006
Presumed Structur	re Owner:		Based On Com	nment:		1
Local			Property Own	ership	<u> </u>	
Owner Name:			Earlingt Church	ma Danaudi		
Hingham		7	Earliest Struct	ure Record:	Estimate	d Reconstruction/Repair Cost: \$494,894.00
	e e e e e e e e e e e e e e e e e e e	n der state der state Der state der state d		erlandira vanetningstegerleen, 2014 es tribile saler vanetnepen kain, 165555555 Salah ersandira kalledelin en minimiter en tribile saler van en minimiter en saler kalledelin en saler en sale	And described were or with a state and an application, we give write an application of a contract when we will be applicated and a contract when we will be a contract when we will be applicated and	φτοτ,υοτ.uo
	levation:	FIRM Map Zone:	FIRM Map Elevati			
824		V4	1	14		
Feet Feet I	NAVD 88		Feet NGV	'D	4	
Primary Type:		ary Material:	Primary Height:		The second	
Revetment	Ston	е	5 to 10 Feet			
Secondary Type:	Secon	dary Material:	Secondary Height			
]						
Structure Summar						stones loose or dislodged.
Rating Level of Action Description				Rating Action Description	Listing Inshore Structures w Infrastructure Dama	ge and/or Limited s (<1 dwelling impacted /
Structure Image 034-039-000-009-1 034-039-000-009-1 034-039-000-009-1	00-PHO1A.jpg 00-PHO1B.jpg		cture Document			

Structure Assessment Form

Town: Hingham

Structure ID: 034-045-000-002-100

Property Owner:	fullabant \$6.52° obrististrabalpagringings	Rediktion of his morphism (side and Advisión Adrición Adrición Assacians de agrego con insigno as chair a chair	Location:	nik filosofinnsk saknete ett til 1990 – klandelnis till hessand kallenisk kedelskilden saks	dereide erzenes uno sekulvelveur asvekuzine, szeuskezmasaseklasskazetutationalorizeteresethos senkin sood- D	ate:	
State			Lincoln St. (Rt. 3A)			8/16/2006	
Presumed Structur	re Owner:		Based On Comment:				
State			Property Own	ership		The second secon	
Owner Name:			Earliest Struct	ire Record:	Estimated Reco	onstruction/Repair Cost:	
Commonwealth of Mass.			0	25timated Rece	\$55,292.00		
many and a second	levation:	FIRM Map Zone:	FIRM Map Elevati			derlik karangan derengan mengenal bahang seria kerang seria kerang seria kerang seria kerang seria kerang seri Serias mengan dari persemban deri pengan pengan pengan kerang seria kerang seria kerang seria kerang seria ker	
352 Feet Feet I	NAVD 00	A4		12		la de la companya della companya della companya de la companya della companya del	
	NAVD 88		Feet NGV	טי			
Primary Type: Revetment	1	mary Material: one	Primary Height: 10 to 15 Feet	7.			
Secondary Type:						A STATE OF THE STA	
secondary Type.	- Sec	ondary Material:	Secondary Height		Manufact of the second	AND THE RESERVE OF THE PARTY OF	
Structure Summar	1						
		al by 3 horizontal) with	stone size from 100	t o 2000 lb. Min	or erosion at top of revetment.		
Condition	В			Priority	IV		
Rating	Good			Rating	High Priority		
Level of Action	Minor			Action	Consider for Next Project		
Description	problems, to landform adequate to coastal sto	bserved to exhibit very superficial in nature. Min is present. Structure to provide protection from with no damage. Acfilimit future deterioratio ture.	inor erosion / landform m a major ctions taken		High Value Inshore Structi for Infrastructure Damage Density Residential Dwelli impacted / 100 feet of sho	and/or Moderate ngs (1-10 dwellings	
Structure Image	em eternasianiente potres centralicadoriales de contralicadoriales	manusement in terrestriction per la colonia de trapación communication de colonia possibilità proposition de nel construir de la construir de colonia de construir de colonia d	cture Documen	ert-misjaket (1990) en men rymmalistikkeen in staat kutheen enem misjaket (1990) en misjaket (1990)	et termine highermannen myssättä tiin sää säätäjää syntäminen ja kun ja passalaisideja salainin minen muun ja Kun ja passalainin ja pastituminen kun ja passalainin ja palaitiin sää Tiin havanneet tiesen ja vasii, vasi ja		
34-045-000-002-1				ω,			
34-045-000-002-1		_					
		•					
			•				

Structure Assessment Form

Town: Hingham

Structure ID: 034-045-000-002-200

Property Owner:	menerum en	Location:	eld timenger in han kart undeld salmme der uit in dessagen en steller getilgt megtingt men mit und en de stelle	Date:
State		Lincoln St. (Rt. 3A)	8/16/2006
Presumed Structur	e Owner:	Based On Co	omment:	3
State		Property Ow	The second second	
Owner Name:		Farliect Stru	cture Record:	Estimated Departmention (Department
Commonwealth of	Mass.	Larnest Stru	0	Estimated Reconstruction/Repair Cost: \$0.00
	- to the second	illidot ir rediciolori olokka, disustekkasu krit vist olokka ir dulatuu avaga vaalukusi salaisia. Ir illio kalaksiinin kiini vision valaksi valaasta, daari visiotii ir tarikiini valaksii vana olokkassii sala	es Mahasalandara Jagon noonaddhala dheelaha lee noonada aan healan 270 oo ah a Ah ah	
Length: Top E	levation: FIRM Map Zone:	FIRM Map Eleva	4.44.00	
	IAVD 88		12	
		Feet NO		
Primary Type: Bulkhead/ Seawall	Primary Material: Concrete	Primary Height: Over 15 Feet		
Secondary Type:		<i>'</i>		
Revetment	Secondary Material: Stone	Secondary Heig Over 15 Feet	nt:	
Structure Summary		1		
Concrete bridge pi		. Placed rip rap slo	ope (1 vertical by 1	horizontal) between bridge pier abutters. 500 to
2000 lb stones.		0. 1. 5.	• • •	The state of the s
Condition	A		Dut it	V
Rating	Excellent		Priority Rating	v Immediate / Highest Priority
Level of Action	None		Action	Consider For Immediate Action Due to Public
Description	Like new condition. Structure exp withstand major coastal storm wi		D 1.4	Safety and Welfare Issues Critical Inshore Structures Present with
	Stable landform (beach, dune or	bank).	Description	Potential for Infrastructure Damage and/or
	Adequate system exists to provid from major coastal storm.	e protection		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 s horeline)
				,
THE PARTY OF PARTY OF PARTY OF THE PARTY OF	en er	PHP-HIR TABLE AB LIEU ABANTANIAN SANTANIAN AND AND AND AND AND AND AND AND AND A	е Настроительной баса в этом перез посывающий пробественный и постоя от перед на пробественный пробественный п на принципальный пробественный пробе	
Structure Image		ucture Docume	nts:	
034-045-000-002-2				
)34-045-000-002-2				
034-045-000-002-3	00-PHO2C.jpg			

Structure Assessment Form

Town: Hingham

Structure ID: 034-045-000-002-300

Property Owner:	at ("Adamphilis A-A) (Ada Ada (Ada (Ada (Ada (Ada (Ada (Ada	Location:	ukkuntang, melit mesterihat telektir terutrosom uning vinsi sala stat vast uni melat militar telektir.	kfriktin kungsmannen fransklada krist ridak ta das var-trekt graps, de drimstravforfet fan 1990 tilledstaddess-	Date:
State	State		Lincoln St. (Rt. 3A)		8/16/2006
Presumed Structur	re Owner:	Based On Co	mment:		,
State		Property Ow	A CONTRACTOR OF THE PARTY OF TH	and the second second	The second secon
Owner Name: Commonwealth of	Mass	Earliest Struc	ture Record:	Estimated F	Reconstruction/Repair Cost:
	The state of the s	intermitted to white early and delicated about the factor arrange is produced a decision to	distribution disservatives or international accommensation and the second	A Challandh as ar a dhir nhhaidh Mhilleach (Challan an Ann àire àire ann an Ann àire ann an Ann àire ann an An	\$135,971.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Eleva	tion:		
174	A3		12		
Feet Feet M	NAVD 88	Feet No	GVD		V1131
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	nt:		
					-
Structure Summary					
Placed stone block Portions are dump	slope (2 to 3 ton) on earth and cru	shed stone slope.	Gaps between stor	nes and some erosion abov	e top of revetment.
l ordons are dump	eu stories.				
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Conside	eration
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Struct to withstand major coastal storm with moderate damage. Actions taken 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 ristorm. Actions taken to provide admaterial for full protection and extending the structure.	ng, spalling, ure adequate with little to to reinforce from major of damage to to be sufficient major coastal lidition	Description	Inshore Structures Pre potential for Significan	sent with Limited t Infrastructure Damage
Structure Image 034-045-000-002-3		ucture Docume	nts:		

Structure Assessment Form

Town: Hingham
Structure ID: 034-045-000-002-400

Key: community-map-block-parcel-structure

and the same of th	y Owner:		Location:		Date:	Date:	
State			Lincoln St. (Rt. 3A) Based On Comment:			8/16/2006	
Presumed Structu	re Owner:						
State	tate		Property Own	ership		Now respectively a secure	
Owner Name:			Earliest Struct	ure Record:	Estimated Reconstruct	tion/Renair Cost	
Com monwea lth o	f Mass.	7		0		\$108,108.00	
ength: Top I	Elevation:	FIRM Map Zone:	FIRM Map Elevati		allahr dishlektiri oʻronum moro, qoroquta rushtaniyalangisiqinining astababat batalahatin qingalismo qorqut yo Talanisti tilinga qoshiyotining qoʻroquta qoʻroning astababat qoʻroning astababat qoʻroquta qoʻroquta qoʻroqut		
90		A3		12			
Feet Feet	NAVD 88		Feet NG\	/D			
Primary Type:	Prima	ary Material:	Primary Height:				
Groin/ Jetty	Ston	e	5 to 10 Feet				
Secondary Type:	Secon	dary Material:	Secondary Height	:			
Structure Summar		t 4 feet above mean h					
Rating Level of Action Description	deterioration, undermining, to withstand I moderate dan structure to p coastal storm structure. Mis landform exist to fully protection. Action	sound but may exhibit , section loss, crackin , and/or scour. Structumajor coastal storm mage. Actions taken to provide full protection and for extending life oderate wind or wave ets. Landform may no et shoreline during a no is taken to provide ad ull protection and exte	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	None Long Term Planning Consideration No Inshore Structures or Resider Units Present		
tructure Imag 34-045-000-002-8 34-045-000-002-8	500-PHO4A.jpg		cture Documen	ts:			

Structure Assessment Form

Town: Hingham
Structure ID: 034-046-000-001-100

Property Owner:	da Maria Pada Maria Andre Maria Romando anterior de la Maria del Brasil de la capación en plan en del An	handt of heliological distribution makes mellome Forent State & Belog 1decision	Location:	eriaku-resisterkisterkistataisista jaanusirjingi-reterriri hida tunahuudo	derministerhalaninin sihaninaan ceriningundera, keper adabustaban dun historiahadu kemidili didujuken basari c	Date:
State	The state of the s	3 - 5 to 11 6 2 to 11 2 to 12	Lincoln St. (Rt. 3A)			8/16/2006
Presumed Structur	e Owner		Based On Con			1
State			Property Own	and the second second		COMPANY OF THE PARTY COLUMN TO THE PARTY OF
			,			
Owner Name: Commonwealth of	Mass		Earliest Struct	The second second	Estimated	Reconstruction/Repair Cost:
Commonwealthor	ridos.	/ 		0		\$518,364.00
Length: Top E	levation:	TRM Map Zone:	FIRM Map Elevati	ion:	er communicació y a resista des Estados en Estados por Program, estados de Stados de Maria Participado, de Stados de Companyos de Compa	and the season of the Control and the Control
210		A4		12		
Feet Feet N	NAVD 88		Feet NG\	/D		
Primary Type:	Primary	Material:	Primary Height:		ALC:	
Revetment	Stone		Over 15 Feet			
Secondary Type:	Secondar	y Material:	Secondary Height	::		
					2	
Structure Summary					nes and dumped poorly.	
Rating Level of Action Description				Priority Rating Action Description	High Value Inshore S for Infrastructure Dan	oject Construction Listing Structures with Potential nage and/or Moderate Owellings (1-10 dwellings fshoreline)
Structure Image 034-046-000-001-1 034-046-000-001-1 034-046-000-001-1	00-PHO1A.jpg 00-PHO1B.jpg	Stru	octure Documen	ts:		

Structure Assessment Form

Town: Hingham

Structure ID: 034-050-000-050-100

Property Owner:	The state of the s	Location:	and the second second second second		Date:
Local		Summer St	t. (Rt. 3A)		8/16/2006
Presumed Structur	e Owner:	Based On (Comment:		
Local	Company of the second s	DEP – Ch 9	91 License	NAME OF TAXABLE PARTY.	
Owner Name:		Farliect Str	ucture Record:		Estimated December 19 10 10
Hingham	/	Lariest Sur	1986		Estimated Reconstruction/Repair Cost: \$35,195.00
	en general en	gottalders skalleder kanningstats fra forstatte skallet som det state op sjegt og til generalisten som det Bossmark i de haver fligt og till sudvissil er skallet som over skallet som det som ble forstatte som sed	inigenya-sik si (574640000 miryantika-disibe vilatentakakanska siya.	ingliklas y skepnilak (1866-kilak 1966-kilak september kan separak dataun mem-asakalkan securi. An an selamber kan mengalak (1866-kilak 1966-kilak 1966-kilak 1966-kilak 1966-kilak 1966-kilak 1966-kilak 1966	1 433,1133.00
The second secon	levation: FIRM Map Zone	to the second second	vation:	A 100	
293		/4	14		
Feet Feet N	NAVD 88	Feet N	NGVD	THE CHARLES	
Primary Type:	Primary Material:	Primary Height	t:		
Revetment	Concrete	5 to 10 Feet			The state of the state of
Secondary Type:	Secondary Material:	Secondary Hei	ght:	200	
Structure Summary	<i>/</i> :			100000	
Public boat ramp (concrete) with revetment on sour orroded reinforcing at top of ram	th side and precast o (approximately m	barriers on north lean high water).	Toe of ramp buri	ment). Some cracking of concrete ed in sand.
Public boat ramp (ramp. Exposed, co Condition Rating Level of Action	concrete) with revetment on sour orroded reinforcing at top of ramp B Good Minor	o (approximately m	Priority Rating Action	Toe of ramp buri	ed in sand. n Planning Considerations
Public boat ramp (ramp. Exposed, co Condition Rating Level of Action	concrete) with revetment on sour orroded reinforcing at top of ramp B Good	ery minor Minor erosion re / landform from a major Actions taken	Priority Rating	Toe of ramp buri	ed in sand. n Planning Considerations e Structures or Residential Dwelling
Public boat ramp (B Good Minor Structure observed to exhibit ve problems, superficial in nature. to landform is present. Structure adequate to provide protection coastal storm with no damage. to prevent / limit future deteriors	ery minor Minor erosion re / landform from a major Actions taken	Priority Rating Action	I None Long Term	ed in sand. n Planning Considerations e Structures or Residential Dwelling
Public boat ramp (ramp. Exposed, or Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit ve 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.	ery minor Minor erosion Ire / landform Ifom a major Actions taken Ition and extend	ean high water). Priority Rating Action Description	I None Long Term No Inshor Units Pres	ed in sand. n Planning Considerations e Structures or Residential Dwelling sent
Public boat ramp (ramp. Exposed, co Condition Rating Level of Action	B Good Minor Structure observed to exhibit ve problems, superficial in nature. to landform is present. Structu adequate to provide protection coastal storm with no damage. to prevent / limit future deterioralife of structure.	ery minor Minor erosion Ire / landform Ifom a major Actions taken Ition and extend	ean high water). Priority Rating Action Description Priority Rating Action For a continuous priority Priority Rating Action For a continuous priority Priority Rating Action For a continuous priority Rating Action For a continuous priority Rating Rati	I None Long Term	ed in sand. n Planning Considerations e Structures or Residential Dwelling

Structure Assessment Form

Town: Hingham

Structure ID: 034-050-000-050-200

Property Owner:	erid v a tv - 15 Art and Artificial of Group I van "A model de descent of medical medical medical descent desc	Locatio	int in the contraction of the co	t telebur enda allekusen det er lant kikke sinali adelan - vettyt vetyta 1994 entyte delazituren japan p	Date:	ad proprietar halo algorital review hallon to accomplicate and have to accomplicate and acc
Local	and the second s	Summer	St. (Rt. 3A)			8/16/2006
Presumed Structur	e Owner:	Based Or	n Comment:			
Local	And the second of the second o		h 91 License			
Owner Name:		Farlingt C	Structure Record:		Faller de de B	
Hingham	/	Earliest S	198	6	Estimated Reconstru	\$131,168.00
	ger mar man ger mei in mei eine geschich das in 550 in deuenkunde und geschichten der gebruck der des geben der geschichten der geben de	urbránschaftshasikákasikonánnáhöksszásk hángus stonákssssá rostássi vandháksikosikonákonásk vastássásk ismussikasi	illidatet de l'Americano de relatavista de l'Americano de la descripción de la descripción de la deliminación	it die Gebruik von Protessing von die Statische Vollensten erneit en deutsche der dem Verleichstelligten von Vollenstellen Statischen von Statischen der Statischen des Leitzen von der Vollenstelligen von der Vollenstellig	er og framskunder og for til det skilde for til service for til a statisk kilde fordet blever, som upper for t Fordet blever for til skilde skilde for til service for til a statisk kilde fordet blever, som se for til a statisk blever for til skilde skilde for til skilde skil	#101/100.00
Length: Top E	levation: FIRM Map Zone		and the same of the same of	Contract of the		ASS.
- 1	IAVD 88	/4 Fact	14 + NCVD			4
			t NGVD		ATT A COMMENT	Art 6
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Heighton 15 Fee	TARREST OF THE PARTY OF T		Van Town of the	
Secondary Type:	Д.	,		IN CONTRACTOR		/
secondary Type.	Secondary Material:	Secondary H	leight:			
Structure Summary		1		THE PARTY OF THE P		
	ll (dryset) for park and town land	ling. Some fill los	ss inshore of seav	all. No noted mov	rement or bulging.	a constitution of the land of
Condition	В		Priority	ii		
Rating	Good		Rating	 Low Prio	rity	
Level of Action	Minor		Action		oject Consideration	
Description	Structure observed to exhibit very problems, superficial in nature. to landform is present. Structuadequate to provide protection coastal storm with no damage. to prevent / limit future deterioralife of structure.	Minor erosion ire / landform from a major Actions taken	Descripti		Structures Present with for Significant Infrastr	
tructure Image	es: Si	tructure Docui	ments:		ministe Sahari manahapit ilikuwan didabakamin'in istiladik ja Fraysat katiya na basiman ku	mit discharation of 1975 (1944 to 1845) and (1944) and (1945) and (1945) are based on the big
34-050-000-050-2		EP CH.91	OCT 22 198	PLAN	034-050-000-0	50-200-LIC2A
34-050-000-050-2		EP CH.91	JAN 5 1990	PLANS	034-050-000-0	50-200-LIC2B
34-050-000-050-20	00-PHO2C jpg					

Structure Assessment Form

Town: Hingham

Structure ID: 034-050-000-051-100

Property Owner:	illengeninfetoren komell den izustellikon-leuteri-usellit saan sikkeamojohikon-le-sijet 40 km districtis sikkit musempok, viser enumfetot tiski kiphet-kis	Location:	rithir differ (differ) to a rith garmed the rescript of the excitate distribute excitate and a single sense.	Pat	2:
Local	A STATE OF THE STA	Otis St. (Rt. 3	BA)		8/16/2006
Presumed Structur	e Owner:	Based On Cor	nment:		
Local		Property Owr			
Owner Name:		Earliest Struct	ture Record:	Estimated Recons	truction/Repair Cost:
Hingham	/		0	Estimated Records	\$108,108.00
ength: Top E	levation: FIRM Map Zone:	k Villader klist samt selvaji kaj kuidan eritik delikteren es arrene esme dundaket kan saabat Krister kliste klister klister klister at klister kliste	kundigi disudi vilikida e 44 dismi kuna sink _{er} an sinke inde-sistekala kuna kalaisi ong musica, gi Kongo musici disu ana misma administra on on ologi, _a ana, is pasidi disu ana misma assat assat gi	en NATABABAT er i territ, kramanigen, etterde Sakridoninkommen, opraalisk fan 'en bedriedskakkingstom, try'e 1992baset skrig grent groef teder van terrins op ander sekste worstermen gebruik ander bedriedskakkingstom, der sitestemen op a	
180	levation: FIRM Map Zone:	FIRM Map Elevat	ion:		
Feet Feet N	NAVD 88	Feet NG			
Primary Type:	Primary Material:	Primary Height:		The second second	9934
Revetment	Stone	5 to 10 Feet		是一种。"····································	
Secondary Type:	Secondary Material:	Secondary Heigh	t:		
					-
Structure Summary	<i>/</i> :				20 0
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Struct to withstand major coastal storms	ng, spalling, ure adequate with little to	Priority Rating Action Description	I None Long Term Planning Conside No Inshore Structures or Res Units Present	
	moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a storm. Actions taken to provide ac material for full protection and extending the storm of the storm of the storm.	from major fe of damage to ot be sufficient major coastal ddition			
tructure Image		ucture Documen	ts:		
34-050-000-051-1		VN FE	B 2001 HINC	GHAM BEACH 034-050-000	-051-100-COE1A
34-050-000-051-1	00-PHO1B.jpg				

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-001-100

Property Owner:	NAGAMANENNA 1886-1984 A Behart A In-Mari Assanda Emilian (Ar. 17.4 Medicanska SA) sede assanda (Ar. 17.4 Medicanska SA)	Location:	iki taruh kecil ti hani salambur tari Adal (i ida jara) ren 3 ta bahwan dan yapi ri eta sa yapi	nthe second website the contract of the contract contract of the contract of t	Budo spirat 91500 filodologica (se se s
Local	The state of the s	Summer St		Date	8/16/2006
Presumed Structu	re Owner	Based On C	`amment.		0/10/2000
Local	o owner.	Property O		The state of the s	and the state of t
) O					
Owner Name: Hingham		Earliest Str	ucture Record:	Estimated Reconstr	ruction/Repair Cost:
		Processor on the state of the control of the contro	O		\$77,748.00
Length: Top I	Elevation: FIRM Map Z	one: FIRM Map Elev	ation:	A COMMISSION OF A SPECIAL TOP AND A SPECIAL TOP A SPECIAL TOP AND A SPECIAL TOP A SPECIAL TOP A SPECIAL TOP AND A SPECIAL TOP A SPECIA	energiese (notation of the second of the sec
310	15	A3	11		36.50
Feet Feet	NAVD 88	Feet N	IGVD		T
Primary Type:	Primary Material:	Primary Height	•		381 S
Bulkhead/ Seawal	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Hei	ght:		
Structure Summar	y : all (dryset) with 30 inch wide c	to professional designation of the second			2 (3) (3)
Rating Level of Action Description	Good Minor Structure observed to exhibit problems, superficial in nature to landform is present. Structure adequate to provide protectic coastal storm with no damage to prevent / limit future determine of structure.	re. Minor erosion cture / landform on from a major ge. Actions taken	Rating Action Description	Low Priority Future Project Consideration Inshore Structures Present wit potential for Significant Infrastr	h Limited ructure Damage
Structure Image 134-051-000-001-1		Structure Docume			
034-051-000-001-1		DEP CH.91	APR 10 200 PLA	NS 034-051-000-0	01-100-LIC1A
		•			

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-001-200

Property Owner:		Location		erthiology (complete familian hazilda Archinishe entervisione ego-versión produit - physiologic (100 det physio	Date:	(1) 1 (1) (1) (1) (1) (1) (1) (1) (1)
Local		Summer S	t. (Rt. 3A)			8/16/2006
Presumed Structu	ıre Owner:	Based On (Comment:		,	
Local		Property O			The salling will be a second of the salling of the	
Owner Name:		,				
Hingham	/	Earliest Str	ucture Record:	Estima	ated Reconstruction/Re	
			no de la missiona de Maria de Carlos		#T0	53,944.00
	Elevation: FIRM Map Zone:	FIRM Map Ele	vation:			The state of the s
108	8 A3		11			
Feet Feet	NAVD 88	Feet N	NGVD			
Primary Type:	Primary Material:	Primary Heigh	t:			
Bulkhead/ Seawa	Stone	5 to 10 Feet		194	A THE LAND	
Secondary Type:	Secondary Material:	Secondary Hei	ght:			
Structure Summa						
Stone block seaw	al (dry set). Eastern portion failed pe 3A. Remaining seawall is stable, a	previously and rep	paired with dumped	rip rap (1 to 3 ton ston	es). Median strip betv	veen
scawan ana Roda	c 3A. Remaining seawait is stable, a	autough neavy III	i ioss inshore.			
Condition	D		Priority	III		
Rating	Poor		Rating	Moderate Priority		
Level of Action	Major		Action		e Project Improvemen	t
Description	Structure exhibits advanced level deterioration, section loss, cracki undermining, and/or scour. Structure strong risk of significant damage failure during a major coastal stots should be monitored until	ng, spalling, ture has and possible	Description	Infrastructure Dan	s with potential for nage and/or Limited ings (<1 dwelling impa ine)	icted /
	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	regain full storm. ened. e protection ns taken to nits for full				
Structure I m ag		ucture Docum				
34-051-000-001-		P CH.91	APR 10 200 PL	ANS 03	34-051-000-001-200-LI	C2A
34-051-000-001-	200-PHO2B.jpg					

Structure Assessment Form

Town: Hingham
Structure ID: 034-051-000-001-300

Property Owner:	944-Malanaki, www.hillingerian-den-den-den-den-den-den-den-den-den-de	Location:	tisste met et er mei kreiste fiskelig blang Lauring begenheter helder op bestem de en h	Date:
Local		Summer St. (F	Rt. 3A)	8/16/2006
Presumed Structur	re Owner:	Based On Com	ment:	*
Local		Property Own	ership	
Owner Name:		Earliest Structu	ure Record:	Estimated Reconstruction/Repair Cost:
Hingham	/		0	\$57,182.00
	Elevation: FIRM Map 2	Zone: FIRM Map Elevation	interded refuser revisit in delim men ette bette blever bette bette bette bette bette bette bette bette bette omning i delim bette bette omning i delim bette be	
228	10			-
	NAVD 88	Feet NGV	D	
Primary Type: Bulkhead/ Seawal	Primary Material: Stone	Primary Height: 10 to 15 Feet	-	
Secondary Type:	Secondary Material:	Secondary Height.	-1	A Charles of the Control of the Cont
Revetment	Stone	Secondary Height		
Structure Summar	y ;			
Condition Rating Level of Action Description	B Good Minor Structure observed to exhib problems, superficial in natu to landform is present. Structure observed protect coastal storm with no dama to prevent / limit future dete life of structure.	ure. Minor erosion ucture / landform ion from a major ge. Actions taken	Priority Rating Action Description	II Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage
Structure Image 034-051-000-001-3	00-PHO3A.jpg	Structure Document	SS:	

Structure Assessment Form

Town: Hingham
Structure ID: 034-051-000-001-400

Property Owner:	rifikasion, vandami kilangs, siregin ayaler dare Prior 5 i er sepreta sandadadasishi ettima anada et kestida da Jinagaydandanej eksada	Location:	enskruivienskrikkinskrikivi Henskveuer Aktrišk kelüleljinssis vioson suosi	Date:	hild berilden hallet hall berilde kommen fan de kommen fan skrive fan de kommen fan fan skrive fan skrive fan s
Local		Summer St. (R	t. 3A)		8/16/2006
Presumed Structure	e Owner:	Based On Com	ment:	,	
Local	The second secon	Property Owne	ership		
Owner Name:		Earliest Structu	re Record:	Estimated Reconstruc	tion/Repair Cost:
Hingham	/		0		\$24,077.00
	levation: FIRM Map Zone:	FIRM Map Elevation	interference de la composition del composition del composition de la composition del composition d		AND AND PRODUCTION OF THE PRODUCTION OF T
96	15 A3		.1	The Control of the Co	
Feet Feet N	IAVD 88	Feet NGV	D		
Primary Type:	Primary Material:	Primary Height:			4
Bulkhead/ Seawall	Concrete	10 to 15 Feet		The state of the s	
Secondary Type:	Secondary Material:	Secondary Height:	-		17
Bulkhead/ Seawall	Stone				7,000
Structure Summary				is satisfactory condition, constructe	
Rating Level of Action Description	Good 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	inor erosion e / landform om a major ctions taken	Rating Action Description	High Priority Consider for Next Project Constr High Value Inshore Structures w for Infrastructure Damage and/or Density Residential Dwellings (1 impacted / 100 feet of shoreline)	ith Potential Moderate -10 dwellings
Structure Ima ge 034-051-000-001-4		ucture Document	TS:		

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-003-100

Property Owner:		Location:	rmore-rmo-Bitis (25tt). Andon-ddarfaithlid 11-i (úldina spálm-latinnaigh, praiste	Date:
Local		Summer St.	(Rt. 3A)	8/16/2
Presumed Structure	e Owner:	Based On Co	mment:	,
Local		DEP - Ch 91		
Owner Name:		Fortiget Street	duna Danaud	
Hingham	7	Earliest Struc	2001	Estimated Reconstruction/Repair Co \$283,404.
	Section 1. The section of the sectio	essella, urtunn her praksinsenta suuni repatai 5 800 di 200 kolminin kuninden vyista sad di 200 distinin minit		\$400,70°T,1
	levation: FIRM Map	Zone: FIRM Map Eleva	tion:	
226	15	A3	11	and the state of t
Feet Feet N	AVD 88	Feet NO	GVD	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Stone	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Heigl	nt:	
Structure Summary	:			
Stone block seawa	(dryset) that leans inshore	noticeably (possible cons	structed this way).	3 foot wide concrete slabs directly inshore of wall
which are broken a park directly inshor	ind deteri orated along outsh	ore face. Significant fill lo	oss behind seawall ((5 feet wide by 2 to 4 feet diameter). Building and
Condition	C Fair		Priority	III
Rating Level of Action	Moderate		Rating	Moderate Priority
Description	Structure is sound but may	exhibit minor	Action	Consider for Active Project Improvement Listing
Description	deterioration, section loss, undermining, and/or scour. to withstand major coastal moderate damage. Actions structure to provide full protocastal storm and for extenstructure. Moderate wind clandform 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 ding life of or wave damage to may not be sufficient ring a major coastal vide addition	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 034-051-000-003-10 034-051-000-003-10	00-PHO1A.jpg	Structure Docume	nts: PR 10 200 PLAI	NS 034-051-000-003-100-LIC1A

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-004-100

Property Owner:	alah ke-kantah-kancantah ke-kal-kantah dia ke-kantah dia kantah dia kantah dia ke-kantah dia	Location:	kkilalasa keritrikan ushalalat orda sikabiari na kampangkasani gari 1944 digi 1944 digi 1944 digi 1	Date:	
Local	The second section of the second section of the second sec	Summer St.	(Rt. 3A)		8/16/2006
Presumed Structur	e Owner:	Based On Co	mment:	ls,	
Local	The second secon	Property Owi	nership		
Owner Name:		Earliest Struc		Estimated Department of De	:- 61
Hingham	/	Lamest Struc	0	Estimated Reconstruction/Re	31,536.00
		ohr z 1960AMSORBO (integranoungsfasy) for 464 Thibbin Art Bobbin Burnalis (in 1964 America) (in 1964 A	aala fallasia. Lättäjä javajumini rissi (1 tävuttää risthänkä tärjoista lävastuurun vai eruvusattä kälet. Läätä valtainen taitainen ja valtaitää tähinusen taista tärinen käleten kälenin maja valta valtaita vai taitai	- The second of	
Length: Top E	levation: FIRM Map Zone:	FIRM Map Eleva	-	(2) 与112 57 7. (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	
]	A5		11		
	NAVD 88	Feet NG	VD	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Primary Type: Bulkhead/ Seawall	Primary Material: Concrete	Primary Height:			
	•	10 to 15 Feet			
Secondary Type: Revetment	Secondary Material: Stone	Secondary Heigh	t:		
•		j			
Structure Summary	The state of the s	tabana Garat		of cast in place sections and stacked precast	
sections. Peastone along face (1 verti	e fill inshore. Concrete is spalling a	t top with precast s	ections moved or lo	cose. Revetment is 100 lb to 1000 lb stones	dumped
Condition	С		Priority	Ш	
Rating	Fair		Rating	Moderate Priority	
Level of Action Description	Moderate Structure is sound but may exhibit		Action	Consider for Active Project Improvemen Listing	t
	deterioration, section loss, cracking undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wave landform exists. Landform may not of ully protect shoreline during a storm. Actions taken to provide action and extending for full protection and extending for full protection and extending for score actions.	ture adequate with little to to reinforce from major fe of de damage to ot be sufficient major coastal didition	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impa 100 feet of shoreline)	icted /
Structure Image 034-051-000-004-1 034-051-000-004-1	00-PHO1A.jpg	ucture Documer	nts:	uset bergen eine kommengegegegegegegegegegegen om eine eine eine gegen geschen der der der der der der der der An der	

Structure Assessment Form

Town: Hingham
Structure ID: 034-051-000-005-100

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Local	and the second of the second o	Summer St. (Rt. 3A)	8/16/2006
Presumed Structure	e Owner:	Based On Con	nment:	1
Local	The second secon	Property Own		and the second s
Owner Name:				
Hingham	/	Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost: \$112,860.00
	e de la companya de la companya de la companya de la constituidad de la companya de la companya de la companya Companya de la companya de la companya de la companya de la constituidad de la companya del companya de la companya del companya de la companya del comp	ndalar-redon-drip-reg med 3 kitalariska kalenja kerinasirikan bada asa sasa kakila jangkapka kital med 4 kitalasan redo-donka -redokatan sata pengabahan dalam sasa kalenga kerinasiri kalenga kerinasiri kalenga	e Mikiliki kilik filosofoloonigasingaa Arabailin waxay wili waad waaaliiki igaa yayaa waxay kiji ya hii isga ka Mikilika dhalaanii ka kilika halaanii waxay ka ka ka kilika kilika ka k	PIIZ/DUU.UU
	levation: FIRM Map Zone:	FIRM Map Elevati		A second
450	13 A3	1	11	
Feet Feet N	IAVD 88	Feet NG\	/D	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Stone	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height		
Structure Summary				
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit ver problems, superficial in nature. M		Priority Rating Action Description	IV High Priority Consider for Next Project Construction Listing High Value Inshore Structures with Potential
	to landform is present. Structure adequate to provide protection for coastal storm with no damage. A to prevent / limit future deterioratilife of structure.	e / landform om a major Actions taken		for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of s horeline)
	in the second sec	att att normann sugstande (sammelskindelskindelska). Der die Griffe yn er versichte selskindelskande steppen after er versichte stelskinde	erropsife aad driftscorrommen om oppsteerstad blood de datie op om geligte is ge om op	

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-005B-100

Property Owner:	u mARABBAR eenika kalifakka sii Arabar Arabar kannaan wuxuu sii Eromeen na tuuruu tuur Tuury ninnaatiinno, aarag yirinka Arabar	Location:	advide vilde vilde kilos kins kilde kinse is sadvide v de de kilde. En indvande mystery e gleje did vilde.	adatementations in included and the contract of the contract o	the state of the s
Local	the second section of the second section	Summer St.	(Rt. 3A)	Juc.,	8/16/2006
Presumed Structur	re Owner:	Based On Co	mment:		
Local		Property Ow		- AND THE RESERVE OF THE PARTY	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Owner Name:		Earliest Struc	ture Record:	Estimated December	tion (Parenti Cont.
Hingham	/	Laniest Struc	0	Estimated Reconstru	\$315,744.00
	The second secon	na Pela labaharan menuturan semelah menjelagan-teri Pela Pelabahan dan pemerunan sebaharan dan pelabahan sebahan sebah	e starring gl.B. I - List St. F. Fills and dissination in a gold glavelet also distribute distribute and in start and demonstrated from the Starring for word the Fig. Starring for the Starting	SMEER 61-149 automotive from 1995 1444 (1995 Troubing very litherful fact and the smell deleted color behaviour account or sales or 18 to separate applied to the sales and the sales an	Andreas (Charles)
Length: Top E	Elevation: FIRM Map Zone 8 A	the state of the s			
- 1	NAVD 88	Feet NG	11 VD	and the same	
Primary Type:			IVD		
Bulkhead/ Seawall	Primary Material: Stone	Primary Height: 5 to 10 Feet		Will a	
Secondary Type:	Secondary Material:	Secondary Heigh	nt·		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jecondary Flacerial.	Secondary Heigr	11.		
Structure Summary	v :				
Level of Action Description	Moderate Structure is sound but may exhit deterioration, section loss, cracl undermining, and/or scour. Struto withstand major coastal storm moderate damage. Actions take structure to provide full protectic coastal storm and for extending structure. Moderate wind or wallandform exists. Landform may to fully protect shoreline during a storm. Actions taken to provide material for full protection and extending and the storm of the storm of the storm.	king, spalling, cture adequate n with little to en to reinforce on from major life of ve damage to not be sufficient a major coastal addition	Action Description	Future Project Consideration Inshore Structures Present with potential for Significant Infrastruc	Limited cture Damage
Structure Image 034-051-000-005B		ructure Docume	nts:		

Structure Assessment Form

Town: Hingham

Structure ID: 034-051-000-005B-200

		Location:	hrimandi i edilekkiliki dakikiki ini damerininga kirikaki kaliki 4.500 kilo dakila kirikakiya	Date:	the artificial of the many of the second
Local		Summer St. ((Rt. 3A)		8/16/2006
Presumed Structure	Owner:	Based On Co	nment:	1	
Local		DEP - Ch 91			
Owner Name:					
Hingham	/	Earliest Struc	ture Record:	Estimated Reconstruc	tion/Repair Cost: \$78,784.00
	The state of the s	Naco Palata Siria Andreas (Albania) de Albania (Alb	Proceeding the State of the Sta		\$70,70 1.00
Length: Top Ele	the same of the sa		tion:	The second secon	
519		13	11		
Feet Feet NA	VD 88	Feet NG	VD	A CONTRACTOR OF THE PARTY OF TH	
Primary Type:	Primary Material:	Primary Height:	*****		
Bulkhead/ Seawall	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	t:	TOWN THE PARTY OF	T Can
Structure Summary :	1				36
Rating Level of Action Description	B Good Minor Structure observed to exhibit verocities, superficial in nature. to landform is present. Structuadequate to provide protection coastal storm with no damage. to prevent / limit future deterioratifie of structure.	Minor erosion ure / landform from a major Actions taken	Priority Rating Action Description	III Moderate Priority Consider for Active Project Impro- Listing Inshore Structures with potential Infrastructure Damage and/or Lin Residential Dwellings (<1 dwellin 100 feet of shoreline)	for nited
entre de la communicación de desenvolves en el color de communicación de la communicac					
~L		tructure Documer			
Structure Images 034-051-000-005B-20		EP CH.91 D	EC 27 198 PLAN	NS 034-051-000-005	

Structure Assessment Form

Town: Hingham
Structure ID: 034-051-000-059-100

					Key: community-map-block-parcel-structure
Property Owner:	ernel PA self A billion linde eige freit freitlicht behand, waarine vir dit billiofen dat "gestellt mede	ht distable er til S. frikkladde blede finde efter ett ett eft frikkladde gendette etter ett	Location:	dilabilikilangan eleksinet telekateun sulmussunen ez, mesesteessip u livisusi	Date:
Local	the same of the sa		Summer St. (I	Rt. 3A)	8/16/2006
Presumed Structur	e Owner:		Based On Com	nment:	ji
Local			Property Own	ership	
Owner Name:			Earliest Struct	ure Record:	Estimated Pasanstruction/Panair Cash
Hingham		/		0	Estimated Reconstruction/Repair Cost: \$916,674.00
731 Feet Feet N Primary Type:	10 NAVD 88 Primary I	IRM Map Zone: A3 Material:	Feet NGV Primary Height:	11	
Bulkhead/ Seawali Secondary Type: Structure Summary Stone block seawa	Secondary		Secondary Height fill loss behind sea		by 1 to 2 foot deep). Many voids (typical 6 inches by
2 to 4 feet folig)					
Condition Rating	C Fair			Priority	
Level of Action	Moderate			Rating Action	Low Priority Future Project Consideration
Description	deterioration, sec undermining, and	de full protection f d for extending life ate wind or wave andform may not oreline during a m ken to provide add	g, spalling, ire adequate vith little to o 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 034-051-000-059-10 034-051-000-059-10 034-051-000-059-10	00-PHO1A.jpg 00-PHO1B.jpg	Struc	cture Document	ts:	

Section IV

Town of Hingham

Structure Photographs



TOWN: HINGHAM SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
034-011-000-005-100	034-011-000-005-100-PHO1A.jpg		Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
034-011-000-005-100	034-011-000-005-100-PHO1B.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-011-000-005-100	034-011-000-005-100-PHO1C.jpg		Bourne Consulling Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-016-000-183-100	034-016-000-183-100-PHO1A.jpg		Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-016-000-183-100	034-016-000-183-100-PHO1B.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-016-000-183-100	034-016-000-183-100-PHO1C.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-016-000-183-100	034-016-000-183-100-PHO1D.jpg		Boume Consulling Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-016-000-183-100	034-016-000-183-100-PHO1E.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-017-000-099-100	034-017-000-099-100-PHO1A.jpg		Boume Consuliting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-017-000-099-100	034-017-000-099-100-PHO1B.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-017-000-099-100	034-017-000-099-100-PHO1C.Jpg		Bourne Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-017-000-100-100	034-017-000-100-100-PHO1A.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-017-000-113-100	034-017-000-113-100-PHO1A.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-017-000-113-100	034-017-000-113-100-PHO1B.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	SIncture Location	Structure Condition Photo at Time of Survey
034-027-000-059-100	034-027-000-059-100-PHO1A.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
034-027-000-059-100	034-027-000-059-100-PHO1B.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-030-000-011-100	034-030-000-011-100-PHO1A.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-030-000-011-100	034-030-000-011-100-PHO1B.Jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-030-000-011-200	034-030-000-011-200-PHO2A.jpg		Bourne Consultting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-030-000-011-200	034-030-000-011-200-PHO2B.Jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-030-000-011-200	034-030-000-011-200-PHO2C.jpg		Bourne Consuliting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Localion	Structure Condition Photo at Time of Survey
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034-034-000-000-100	034-034-000-000-100-PHO1C.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-035-000-001-100	034-035-000-001-100-PHO1A.jpg		Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
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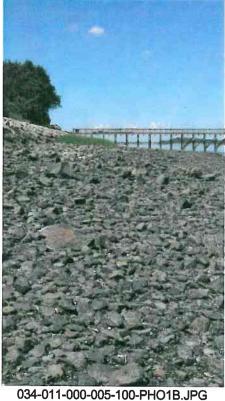
TOWN: HINGHAM SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: AUGUST 2006

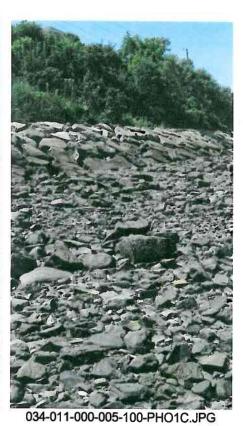
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034-036-000-106-200	034-036-000-106-200-PHO2B.jpg	Boume Consulling Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-036-000-106-300	034-036-000-106-300-PHO3A.jpg	Bourne Consulting Fnoine-ering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-039-000-008-100	034-039-000-008-100-PHO1A.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-039-000-008-100	034-039-000-008-100-PHO1B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-039-000-009-100	034-039-000-009-100-PHO1A.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-039-000-009-100	034-039-000-009-100-PHO1B.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
034-039-000-009-100	034-039-000-009-100-PHO1C.Jpg	Bourne Consulking Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
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034-045-000-002-100	034-045-000-002-100-PHO1B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-045-000-002-200	034-045-000-002-200-PHO2A.jpg	Bourne Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-045-000-002-200	034-045-000-002-200-PHO2B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-045-000-002-200	034-045-000-002-300-PHO2C.Jpg	Bourne Consuliting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-045-000-002-300	034-045-000-002-300-PHO3A.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
034-045-000-002-400	034-045-000-002-500-PHO4A.Jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-045-000-002-400	034-045-000-002-500-PHO4B.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-046-000-001-100	034-046-000-001-100-PHO1A.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condlion Photo at Time of Survey
034-046-000-001-100	034-046-000-001-100-PHO1B.jpg	Boume Consuliting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condtion Photo at Time of Survey
034-046-000-001-100	034-046-000-001-100-PHO1C.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-050-000-050-100	034-050-000-050-100-PHO1A.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
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034-050-000-050-100	034-050-000-050-100-PHO1C.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-050-000-050-200	034-050-000-050-200-PHO2A.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

TOWN: HINGHAM SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: AUGUST 2006

034-050-000-050-200	034-050-000-050-200-PHO2B.jpg	Boume Consulling Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-050-000-050-200	034-050-000-050-200-PHO2C.jpg	Bourne Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-050-000-051-100	034-050-000-051-100-PHO1A.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-050-000-051-100	034-050-000-051-100-PHO1B.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-001-100	034-051-000-001-100-PHO1A.Jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-001-100	034-051-000-001-100-PHO1B.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-001-200	034-051-000-001-200-PHO2A.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
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034-051-000-001-300	034-051-000-001-300-PHO3A.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-001-300	034-051-000-001-300-PHO3B.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-051-000-001-400	034-051-000-001-400-PHO4A.jpg	Boume Consuliting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-003-100	034-051-000-003-100-PHO1A.Jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	+	Structure Location	Structure Condiion Photo at Time of Survey
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034-051-000-004-100	034-051-000-004-100-PHO1A.Jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-051-000-004-100	034-051-000-004-100-PHO1B.Jpg	Bourne Consullting Englneering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-004-100	034-051-000-004-100-PHO1C.jpg	Bourne Consultting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-005-100	034-051-000-005-100-PHO1A.jpg	Bourne Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-051-000-005-100	034-051-000-005-100-PHO1B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-005B-100	034-051-000-005B-100-PHO1A.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Pholo at Time of Survey
034-051-000-005B-200	034-051-000-005B-200-PHO2A.jpg	Boume Consulting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
034-051-000-005B-200	034-051-000-005B-200-PHO2B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-051-000-059-100	034-051-000-059-100-PHO1A.jpg	Bourne Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
034-051-000-059-100	034-051-000-059-100-PHO1B.jpg	Boume Consullting Engineering	HINGHAM	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
034-051-000-059-100	034-051-000-059-100-PHO1C.jpg	Boume Consulling Engineering	HINGHAM	August 2006	DIGITALIMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
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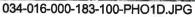


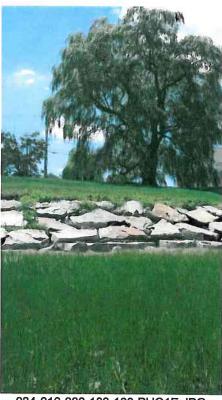
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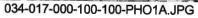


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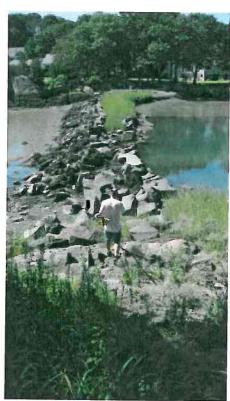




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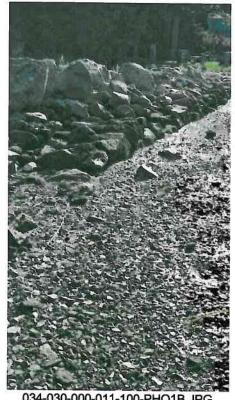
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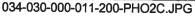


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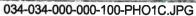


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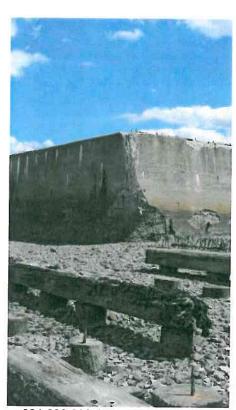




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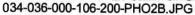


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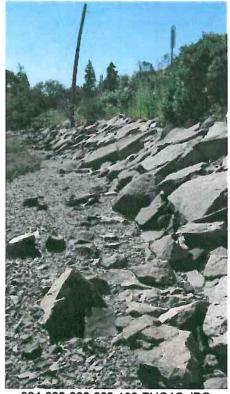
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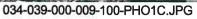


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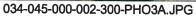


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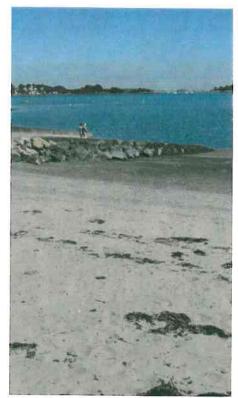
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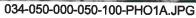


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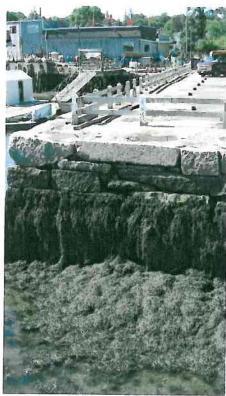




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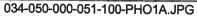


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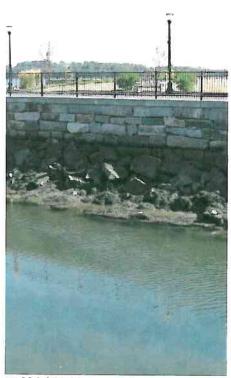
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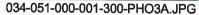


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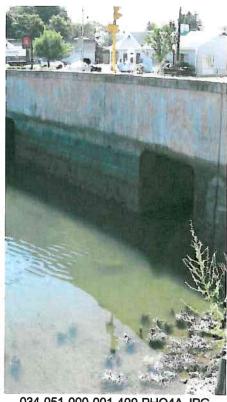
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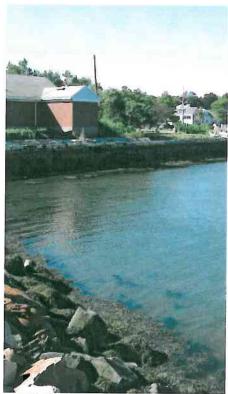




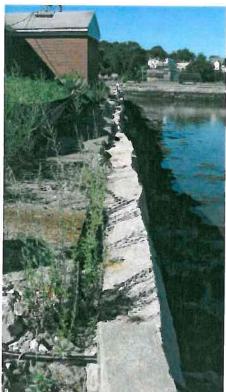
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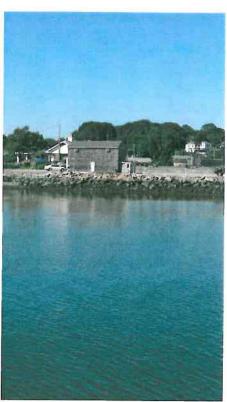
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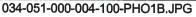


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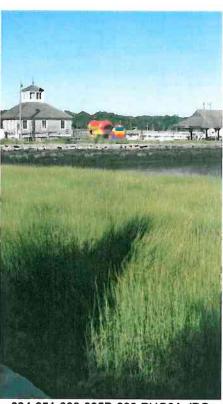
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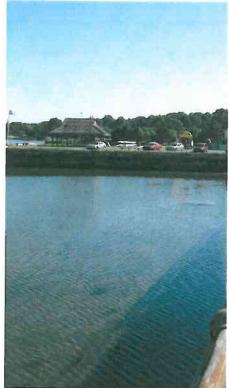


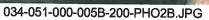
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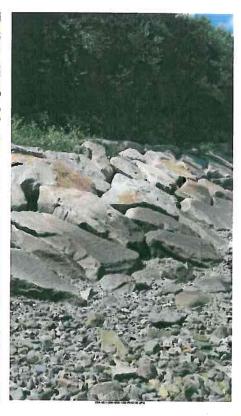
South Shore Coastal Infrastructure and Assessment







034-051-000-059-100-PHO1A.JPG



Section V

Town of Hingham

Structure Research

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP – Chp 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



TOWN: HINGHAM SOURCE: TOWN OF HINGHAM LOCATION: HINGHAM MA DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
034-011-000-005-100	034-011-000-005-100-TWN1A	1527	MA DPW	HINGHAM				MERRII STREET	NOITOI ISTANCO GIVINON SHOTS
034-011-000-005-100	034-011-000-005-100-TWN1B	1655	MA DPW	HINGHAM				MERRIL STREET	SUDDE DECTECTION STONE MOUNT
034-011-000-005-100	034-011-000-005-100-TWN1C	1754	MA DPW	HINGHAM				MERRII STREET	SHORE PROTECTION, STONE MOUND
034-016-000-183-100	034-016-000-183-100-TWN1A	1956	MA DPW	HINGHAM				INTERSECTION OF BELAID DOAD AND BELAID DONG	STONE PROTECTION, STONE MOUND
034-016-000-183-100	034-016-000-183-100-TWN1B	2097	MA DPW	HINGHAM				INTERSECTION OF BELAID DOAD AND BELAID DOWN	STONE MOUND, VICINITY OF BELAIK ROAD
034-016-000-183-100	034-016-000-183-100-TWN1C	2763	MA DPW	HINGHAM	APR 11 1983			INTERSECTION OF HOME STREET AND JADVIS AVE	SHORE PROTECTION, STONE MOUND
034-017-000-099-100	034-017-000-098-100 034-017-000-098-100-TWN1A	2545	MA DPW	HINGHAM				NATERIORION DE PARICE DINICIONAL AND JANVIS AVE	SHORE PROTECTION, STONE MOOND
								INTERSECTION OF PARKER DRIVEWAY AND COSHING AVE	SHURE PROTECTION, CONCRETE SEAWALL
034-017-000-100-100	034-017-000-100-100-100-TWN1A	2545	MA DPW	HINGHAM				INTERSECTION OF PARKER DRIVEWAY AND CUSHING AVE	SHORE PROTECTION, CONCRETE SEAWALL
034-038-000-106-100	034-036-000-106-100-TWN1A	3087	MA DPW	HINGHAM				PRIVATE SHIPVARD AD JACENT TO LINCOLN STREET	DEADWEDTISED AS CONT. NO 2479
034-036-000-106-100	034-036-000-106-100-TWN1B	3138	MA DPW	HINGHAM			r.	PRIVATE SHIPYARD ADJACENT TO LINCOLN STREET	COMMUNITY PIER REHABILITATION
									(READVERTISED TO 3087)

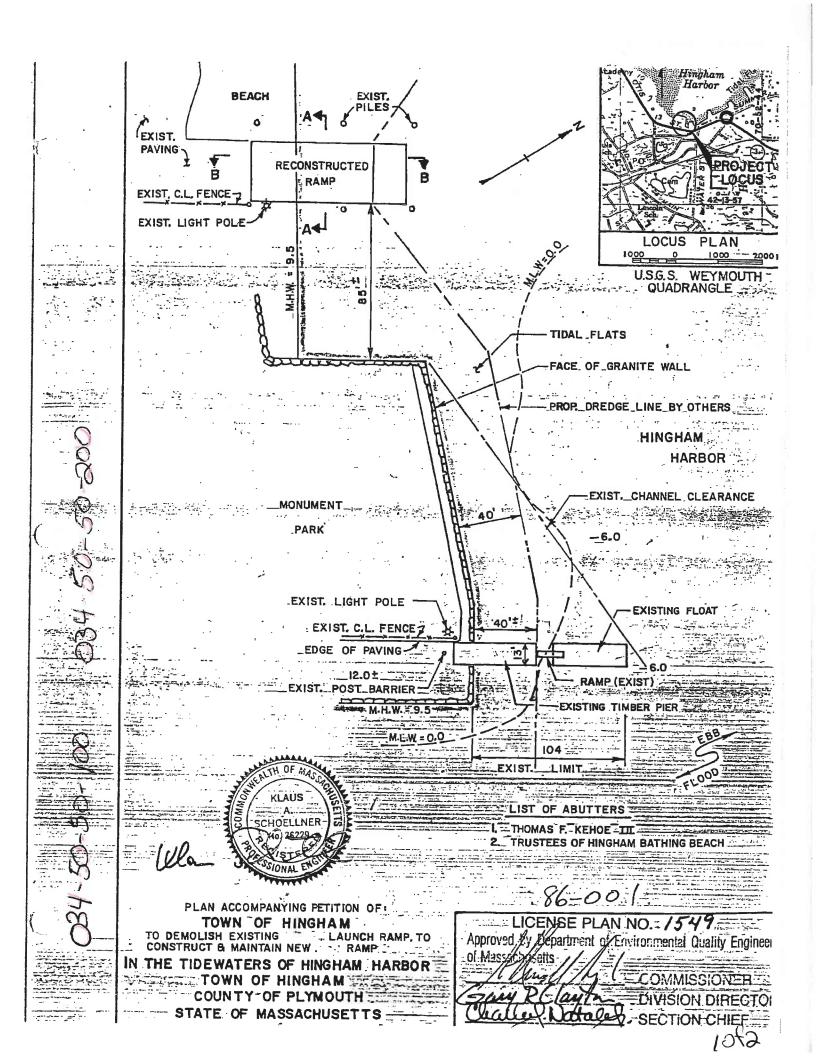
TOWN: HINGHAM

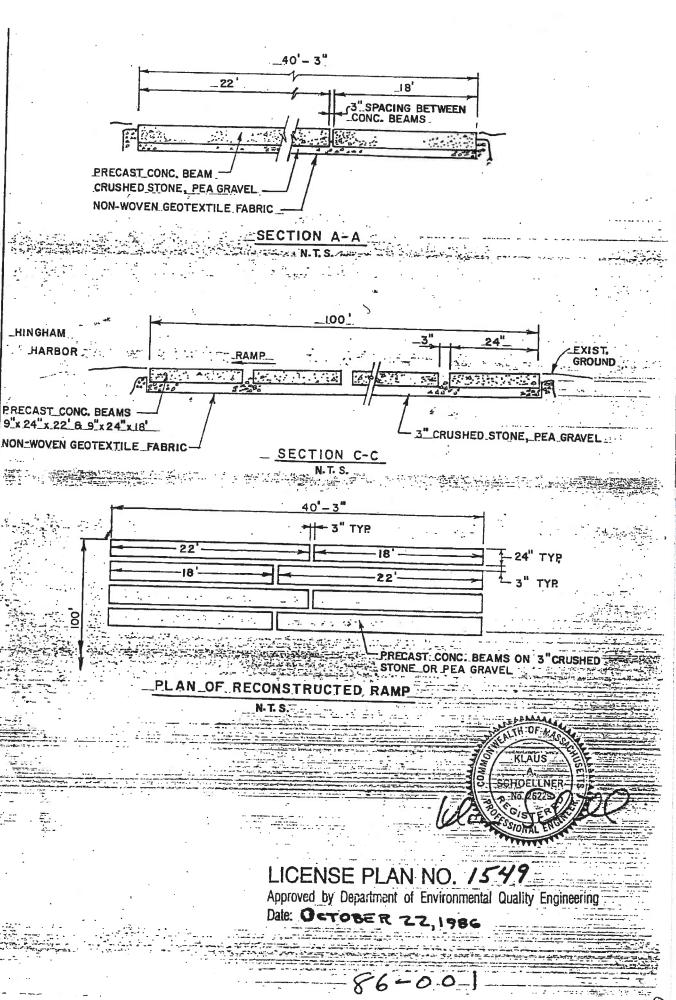
SOURCE: MA-DCR - OFFICE OF WATERWAYS LOCATION: MA-DCR - OFFICE OF WATERWAYS, HINGHAM, MA DATE OF RESEARCH: AUGUST 2006

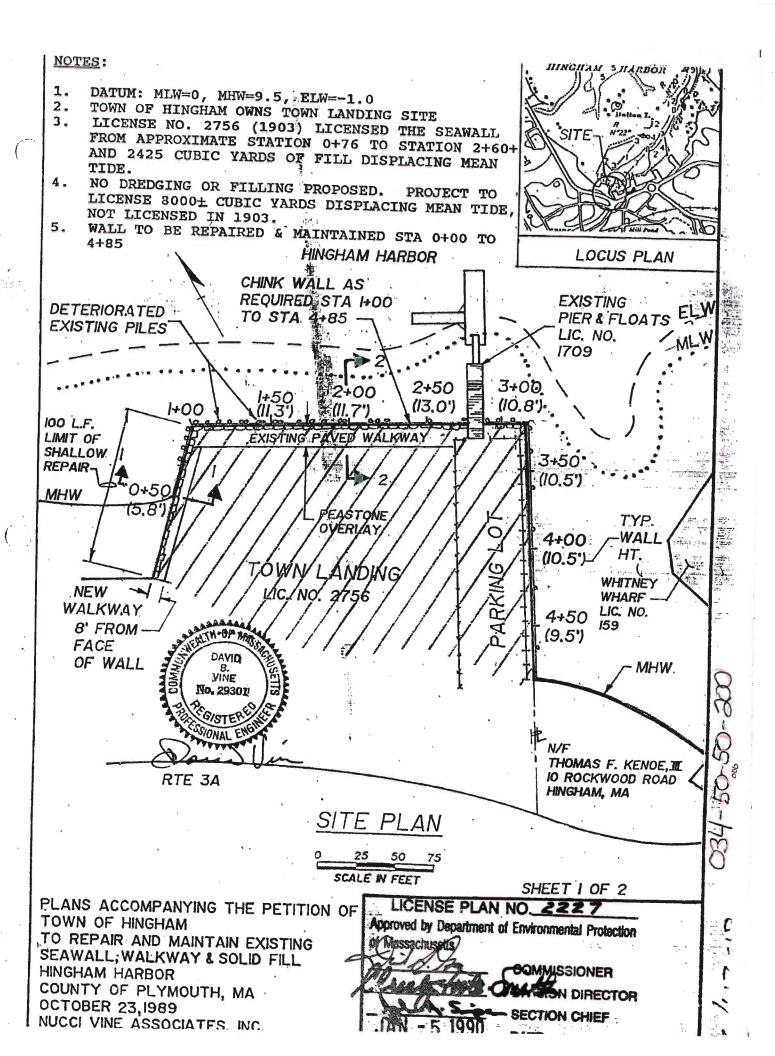
BCE Structure No 034-011-000-005-100 034-011-000-005-100	Document No 034-011-000-005-100-DCR1A 034-011-000-005-100-DCR1B	Contract/ Drawing Number 1527	Entity MA DPW MA DPW	Municipality HINGHAM HINGHAM	Date JUN 1855 SEP 1856		Sheets	Location PARKER'S DRIVE. EAST OF CUSHING DRIVE MALCOLM STREET EAST 300 FEET	Description ORIG. CONST.
034-018-000-183-100	034-011-000-005-100-DCR1C 034-016-000-183-100-DCR1A	1754	MA DPW MA DPW	HINGHAM	APR 1857 SEP 1858	PROPOSED SHORE PROTECTION, STONE MOUND CONSTRUCTION, CROW POINT, HINGHAM PROPOSED SHORE PROTECTION, BELAIR ROAD,	-	MALCOLM STREET WEST 150 FEET EAST OF INTERSECTION OF BELAID BOAR AND	
034-016-000-183-100	034-016-000-183-100-DCR1B	2097	MA DPW	HINGHAM		CROW POINT, VICINITY BELAIR ROAD		꽃	STONE MOUND, VICINITY OF BELAIR ROAD SHORE PROTECTION, STONE MOINN
034-017-000-089-100	034-017-000-089-100-DCR1A	2545	MA DEGE MA DPW	HINGHAM	SEP 1972 JUL 1866	PROPOSED SHORE PROTECTION, STONE MOUND, CROW POINT PROPOSED SHORE PROTECTION, CONCRETE		INTERSECTION OF HOWARD ROAD AND JARVIS AVE ORIG. CONST.	ORIG, CONST.
034-017-000-100-100	034-017-000-100-100-DCR1A	2545	MA DPW	HINGHAM	JUL 1966	SEAWALL, CROW POINT PROPOSED SHORE PROTECTION, CONCRETE SEAWALL, CROW POINT		OF PARKER DRIVEWAY AND	SHORE PROTECTION, CONCRETE SEAWALL, INCLUDES GROIN EAST END OF STRUCTURE SHORE PROTECTION, CONCRETE SEAWALL
							2	COSHING AVE	INCLUDES GROIN EAST END OF STRUCTURE

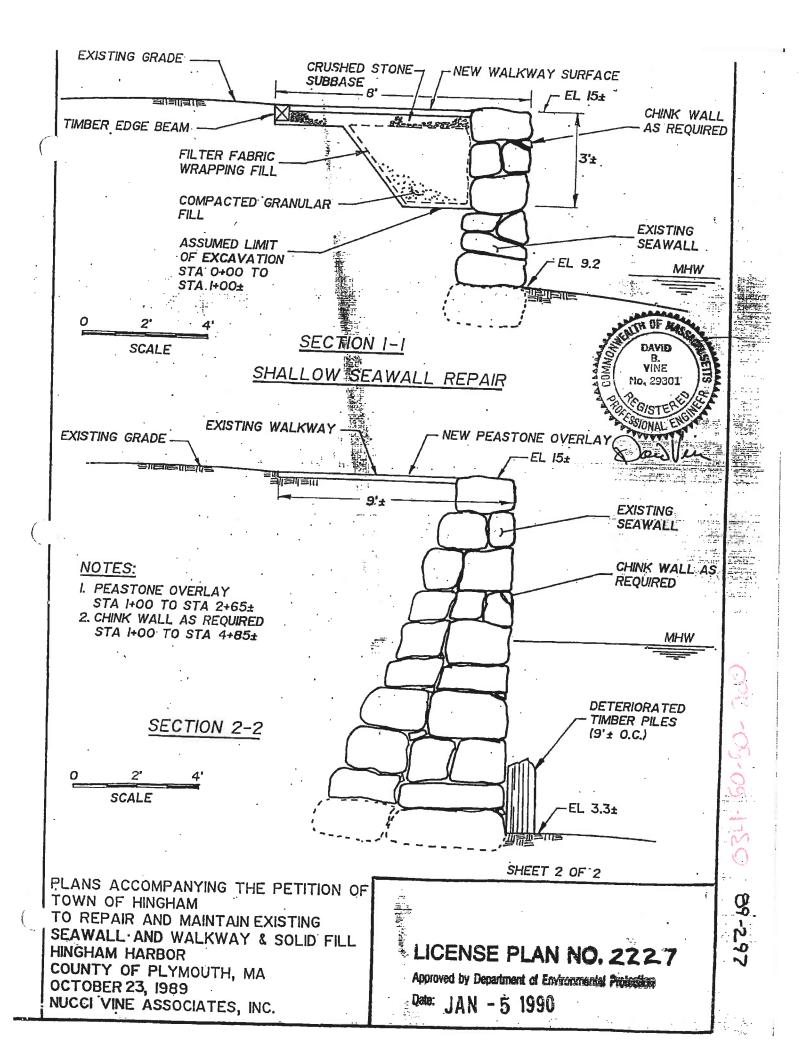
TOWN: HINGHAM SOURCE: MA-DEP CHAPTER 91 LICENSE LOCATION: MA-DEP MAIN OFFICE, BOSTON, MA DATE OF RESEARCH: AUGUST 2006

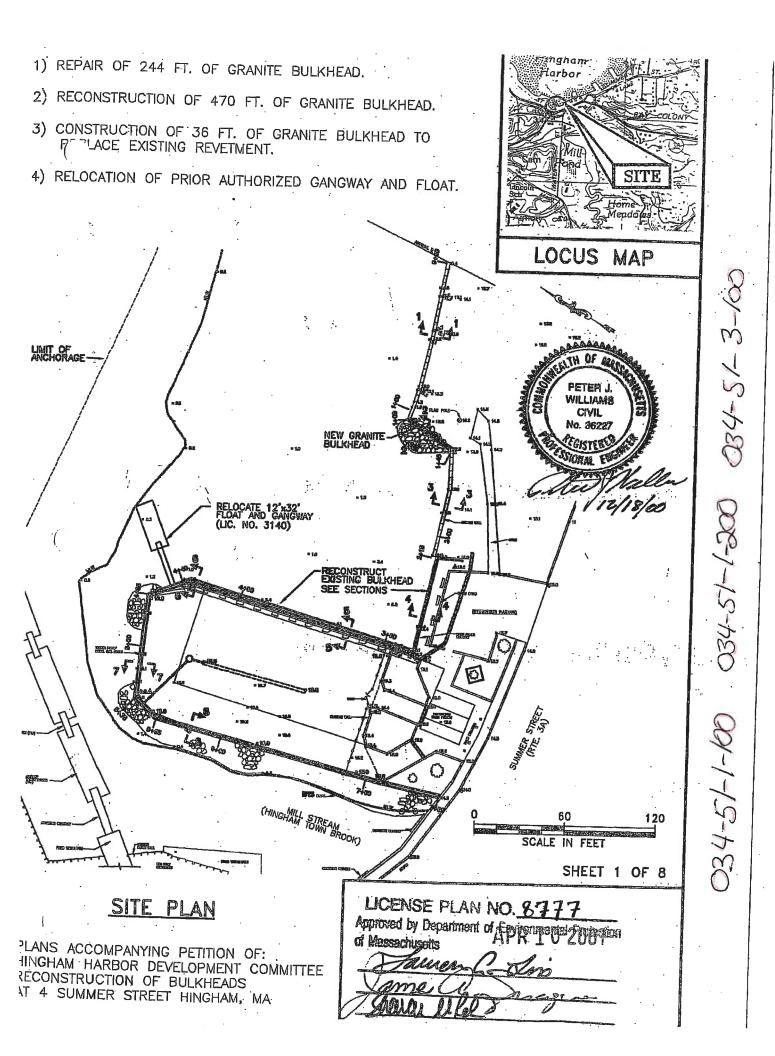
		_	_	_			_	_	_			_	_			_			_			
	- State of the sta	uonduosaa																				
	Location		TOWN PIER AND BOAT RAMP, SOUTHERN	STATE OF STREET	TOWN PIER AND BOAT RAMP, SOUTHERN TERMIN IS OF OTIS STREET		SOUTHERN TERMINUS OF OTIS STREET			The state of the s	4 SOMMER STREET			4 SUMMER STREET			4 SUMMER STREET			BETWEEN BARNES WHARF AND STEAMBOAT	WHARF	
	Sheets		2		7		7			a				ω			80			c	4	
	Title	PLAN ACCOMPANYING BETITION OF TOWN OF	HINGHAM TO BEMOLISH EXISTING LAUNCH RAMP. TO CONSTRUCT AND MAINTAIN NEW RAMP IN THE	TIDEWATERS OF HINGHAM HARBOR	HINGHAM TO DEMOLISH EXISTING LAUNCH RAMP. TO CONSTRUCT AND MAINTAIN NEW RAMP IN THE	TIDEWATERS OF HINGHAM HARBOR	PLANS ACCOMPANYING THE PETITION OF TOWN OF HINGHAM TO REPAIR AND MAINTAIN EXISTING SEAWALT. WAI KWAY & SCHILD FILL UNINCHASSES	STATE OF THE SOCIAL PILE, CHINGHAM HAKBOK	HABBOB DEVELORISTED OF HINGHAM	DECONSTRUCTION OF STRUCTURE	STREET HINGHAM MA	PLANS ACCOMPANYING THE PETITION OF: HINGHAM	HARBOR DEVELOPMENT COMMITTEE	RECONSTRUCTION OF BULKHEADS AT 4 SUMMER	PLANS ACCOMPANYING THE PETITION OF LINCHAM	HARBOR DEVELOPMENT COMMITTEE	RECONSTRUCTION OF BULKHEADS AT 4 SUMMER	STREET, HINGHAM, MA	PLANS ACCOMPANYING THE PETITION OF TOWN OF	HINGHAM TO REPAIR AND MAINTAIN SEAWALL AND	MA SEPTEMBER 1989, NUCCI VINE ASSOCIATES INC.	
	Date		OCT 22 1989		OCT 22 1988		JAN 5 1890			APR 10 2001			APR 10 2001			APR 10 2001	000			DEC 27 1989		
	Municipality		HINGHAM		HINGHAM		HINGHAM			HINGHAM			HINGHAM			HINGHAM				HINGHAM		
	Entity		DEP CH.91		DEP CH.91		DEP CH.91		0	DEP CH.B1			DEP CH.91			DEP CH.91				DEP CH.91		
Confract	Drawing		1549		1549		7227		2222	///			8777			7778				2211		
	Document No		034-050-000-050-100-LIC1A		034-050-000-050-200-LIC2A		034-050-000-050-200-LIC2B		034-051-000-001-100-110-14	WI DITTORIES OF THE PROPERTY O			034-051-000-001-200-LIC2A			034-051-000-003-100-LIC1A				034-051-000-005B-200-LIC2A		
	BCE Structure No		034-050-000-050-100		034-050-000-050-200		034-050-000-050-200		034-051-000-001-100			200 200 200 200	034-031-000-001-200			034-051-000-003-100			000 000 000 000	007-9c00-000-1c0-4c0		

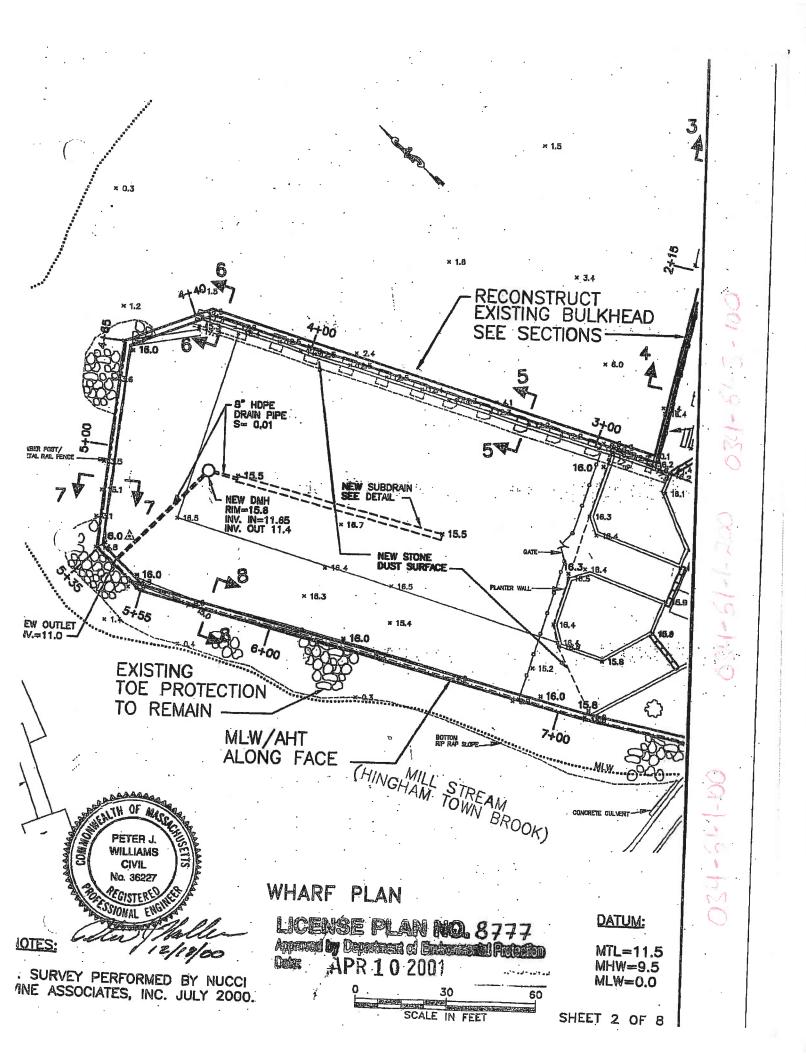


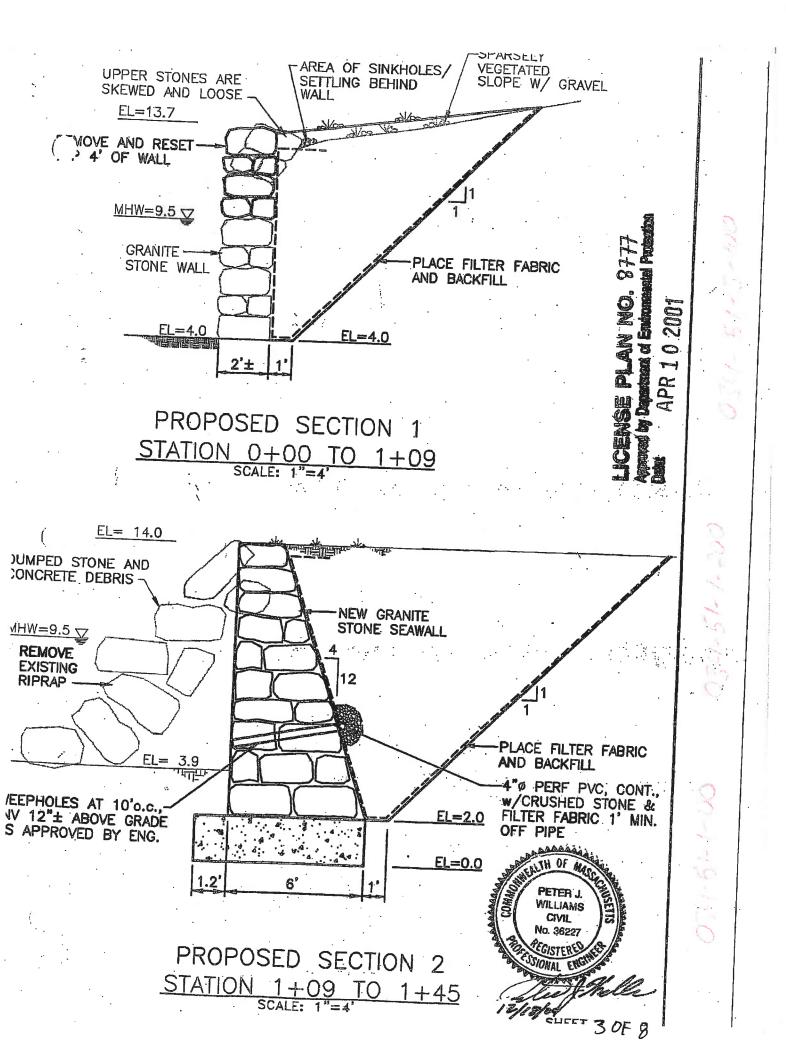


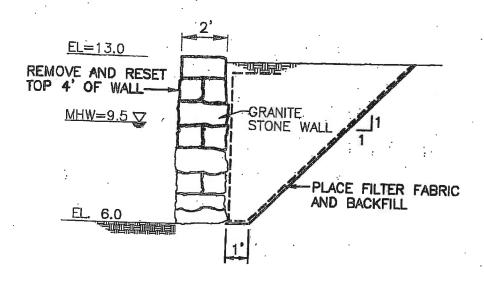




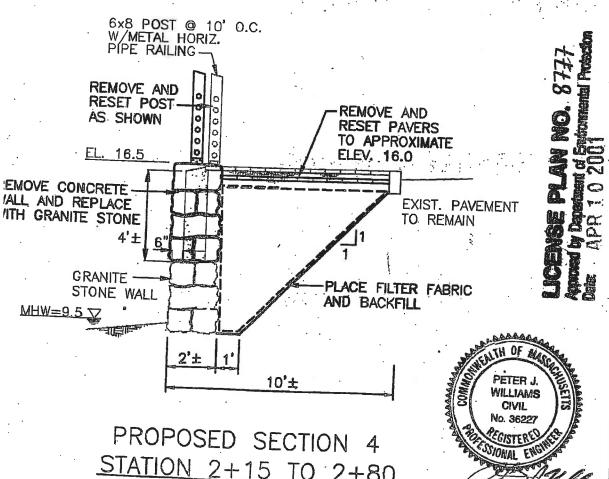


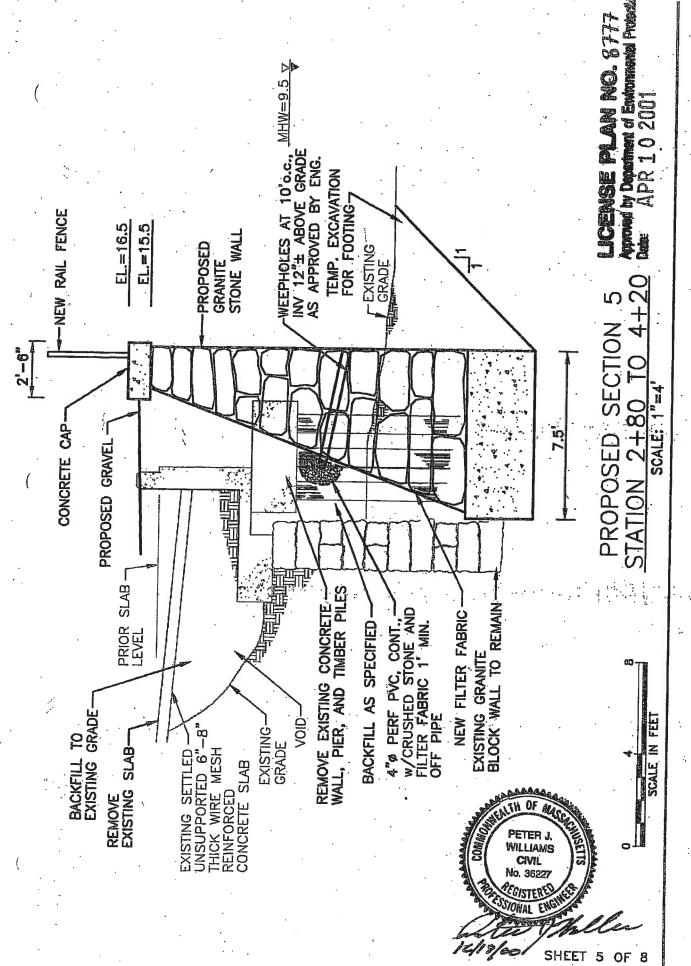


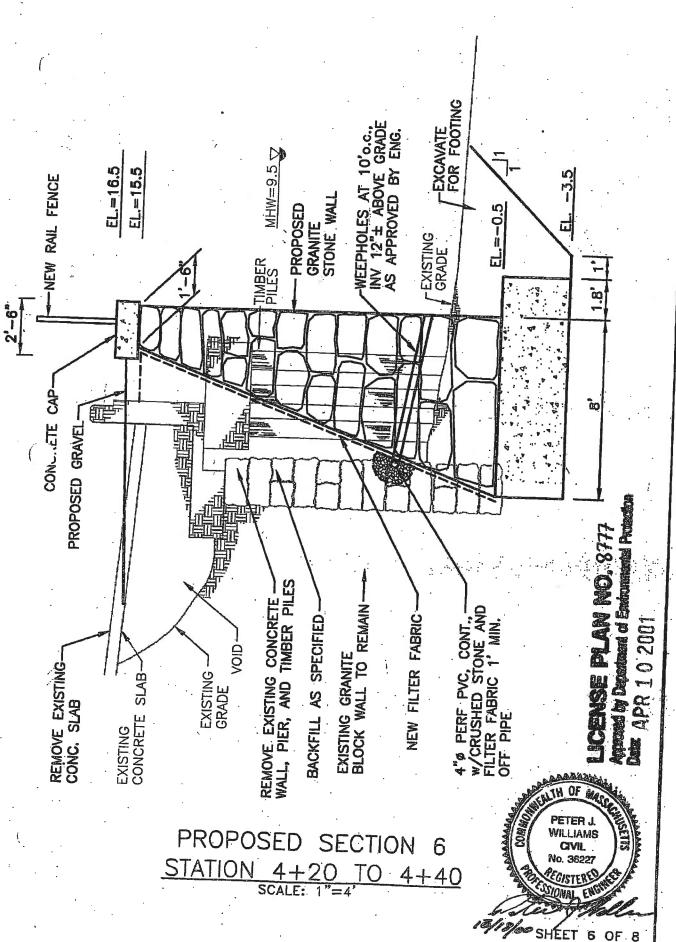




PROPOSED SECTION STATION 1+45 TO SCALE: 1"=4"

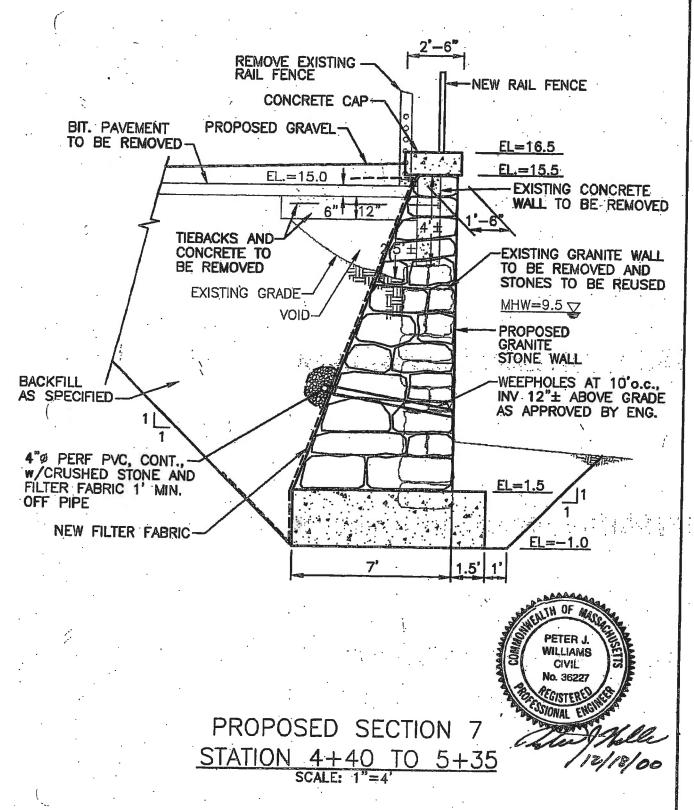






OF 1-1-15-150

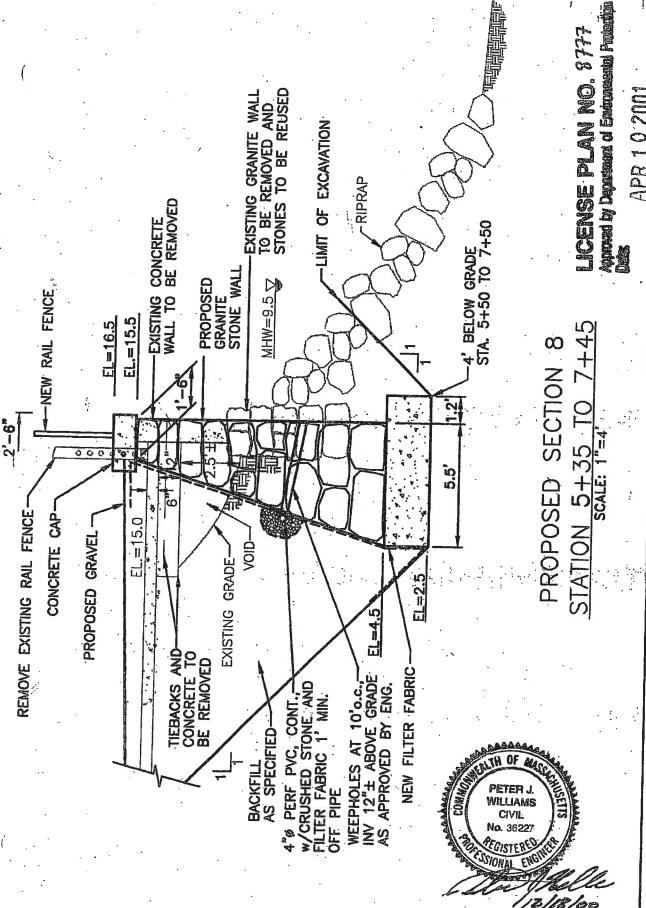
054-51-120



License plan no. 8777

Approved by Department of Environmental Protection
Date: (-----

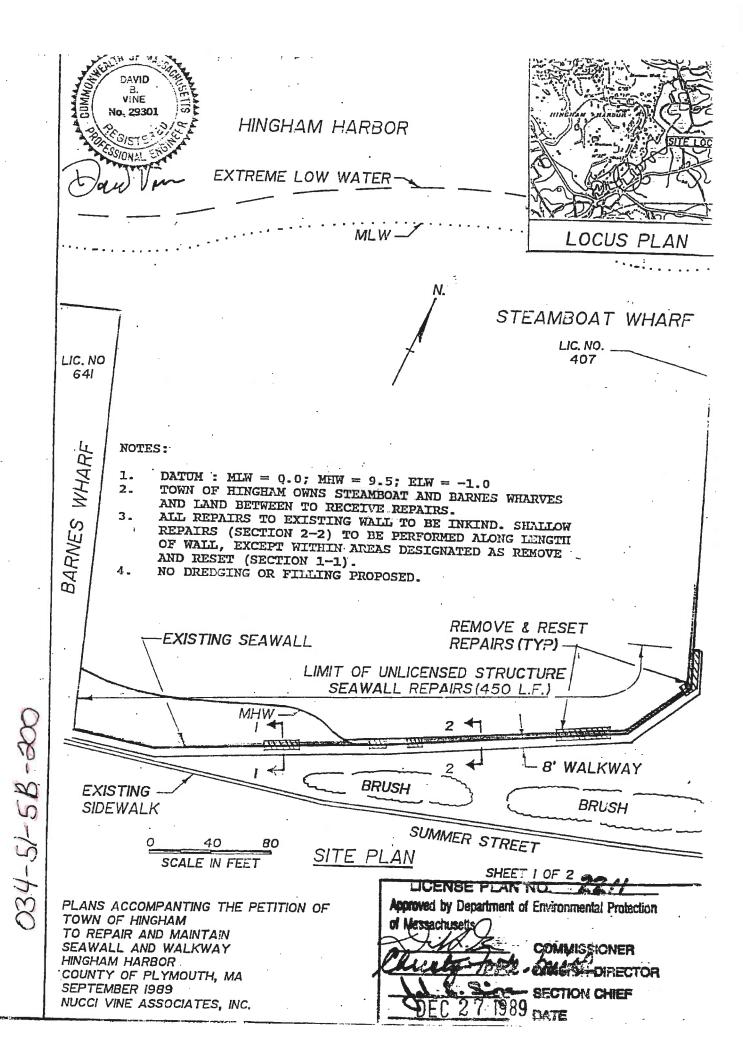
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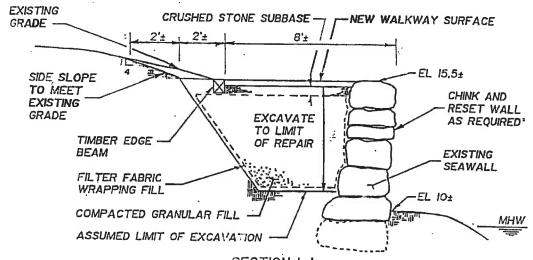


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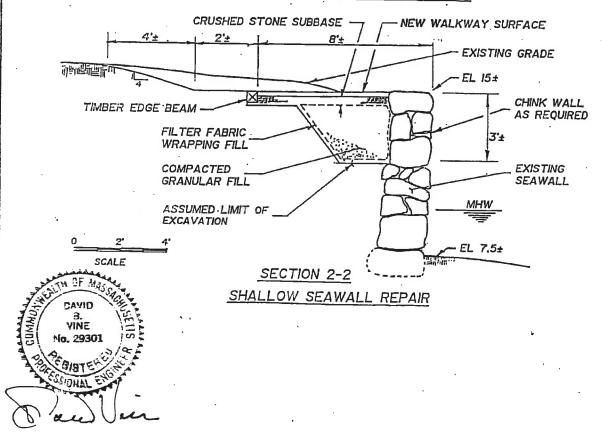
13451-160

SHEET 8 OF 8





SECTION I-I REMOVE & RESET SEAWALL REPAIR



PLANS ACCOMPANYING THE PETITION OF TOWN OF HINGHAM
TO REPAIR AND MAINTAIN
SEAWALL AND WALKWAY
HINGHAM HARBOR
COUNTY OF PLYMOUTH, MA
SEPTEMBER 1989
NUCCI VINE ASSOCIATES, INC

SHEET 2 OF 2

LICENSE PLAN NO. 221/

Asserved by Department of Environmental Protection

DEC 27 1989

TOWN: HINGHAM SOURCE: U.S. - ARMY CORPS OF ENGINEERS LOCATION: U.S.A.C.E. - NEW ENGLAND DISTRICT, CONCORD, MA DATE OF RESEARCH: AUGUST 2006

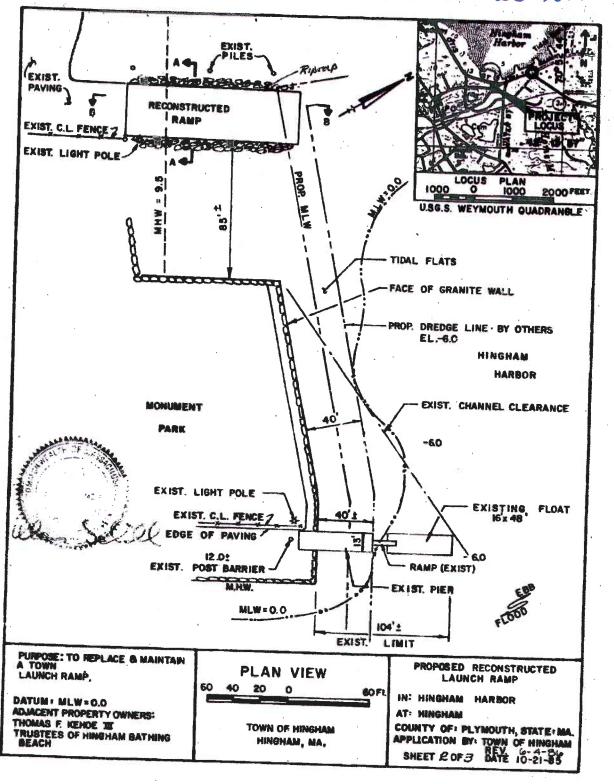
	Location Description	INTERSECTION OF PARKER DRIVEWAY AND SHORE PROTECTION, CONCRETE SEAWALL, INCLUDES CUSHING AVE	INTERSECTION OF PARKER DRIVEWAY AND SHORE PROTECTION, CONCRETE SEAWALL, INCLUDES CUSHING AVE	GROIN EAST END OF STRUCTURE	OFF OTIS STREET, EAST OF IRON HORSE PARK BOAT RAMP REPAIR	OFF OTIS STREET. EAST OF IRON HORSE PARK	OFF OTIS STREET AD MODENT TO THE DATH	NEW RIP RAP	HAM HARBOR		HAM HARBOR SEAWALL REPAIRS	OCOCO TANALLA COCOCO TANALLA COCOCO TANALLA COCOCOCO TANALLA COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO
	Şî.	INTERSECTION OF	INTERSECTION OF		OFF OTIS STREET	OFF OTIS STREET	OFF OTIS STREET	HOUSE	OTIS STREET HINGHAM HARBOR		OTIS STREET, HINGHAM HARBOR	OTIS STREET HINGHAM HABBOD
	Sheets	-	-		7	2		4	a		В	a
	Title	PROPOSED SHORE PROTECTION, CONCRETE SEAWALL, STONE GROIN, SAND FILL, HINGHAM BAY	PROPOSED SHORE PROTECTION, CONCRETE SEAWALL, STONE GROIN, SAND FILL, HINGHAM BAY		PROPOSED RECONSTRUCTION LAUNCH RAMP	BOAT RAMP REPAIRS		DINGHAM BEACH BANK STABILIZATION	WHITNEY WHARF, HINGHAM HARBOR	MULTINES MALABE LINGUISMAN CONTINUES	WILLINGT WITHER, DINGRAM HARBOR	WHITNEY WHARF, HINGHAM HARBOR
	Date	JUL 1966	JUL 1966		JUN 1986	MAR 1994	2000	LEB 2001	SEPT 2000	SEDT 2000	3EL 1 2000	SEPT 2000
	Municipality	HINGHAM	HINGHAM		HINGHAM	HINGHAM	MANORIA	MACIONIII	HINGHAM	HINCHAM	all love.	HINGHAM
	Entity	MA DPW	MA DPW	1	TOWN	TOWN	TOWN		TOWN	NWOT		TOWN
1	Permit Drawing Number	NEDOD 66-239	2545		MA-HULL-86-376	199400032	200100338		200302469	200302469		200302469
	Document No	034-017-000-099-100-COE1A	034-017-000-100-100-COE1A		034-050-000-050-100-COE1A MA-HULL-86-376	034-050-000-050-100-COE2A	034-050-000-051-100-COF1A		034-051-001-000-100-COE1A	034-051-001-000-200-COE1A		034-051-003-000-100-COE1A
	BCE Structure No	034-017-000-099-100	034-017-000-100-100	004 000 000 400	034-050-000-050-100	034-050-000-050-100	034-050-000-051-100		034-051-001-000-100	034-051-001-000-200		034-051-003-000-100

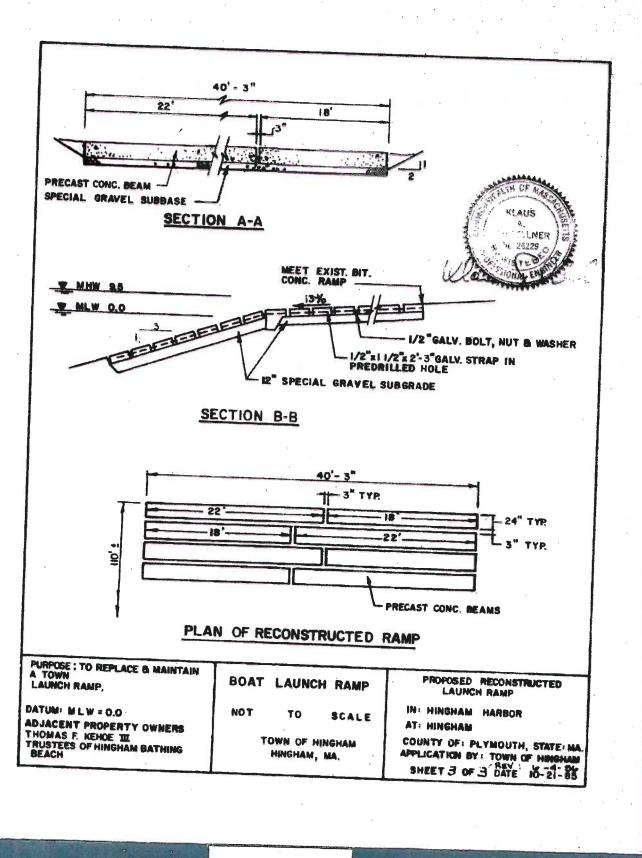
USACE NEODD 66-239 034-017-019-000-100

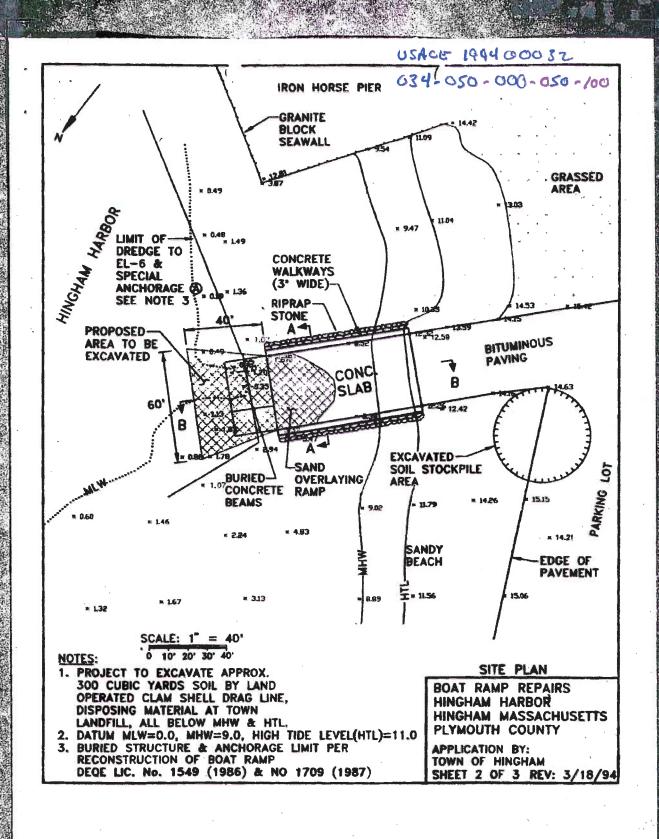
PROP STONE CHOIN HINGHAM BAY ARBOR PLAN NOTE 1". 80 ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO THE PLANE OF MEAN LOW WATER. LOCATION OF PROPOSED 11/19 WORK SHOWN IN RED. Appart filling skound 11.90 MHW EL 97 MIN ELOO PROFILE OF GROIN 4.5 11.150 EXISTING STONE MOUND TO BE REMOVED AND RELAID IN PROPOSED STONE GROLL EL 120 PROP SAND FILL BACKFILL BEHING WALL WITH SUITABLE EXCAVATED MATERIAL AND GRAVEL BORROW 11.75 EL 60 SCALE 1.8 TOCERANCE ST PROPOSED SHORE PROTECTION SE VARIES SEA WALL-STONE GROIN-SAND FILL HINGHAM BAY HINGHAM FRISTING GROUND APPLICATION BY DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS SECTION A A DIVISION OF WATERWAYS AUGUST 1966 ENGINEER FOR WATERWAYS

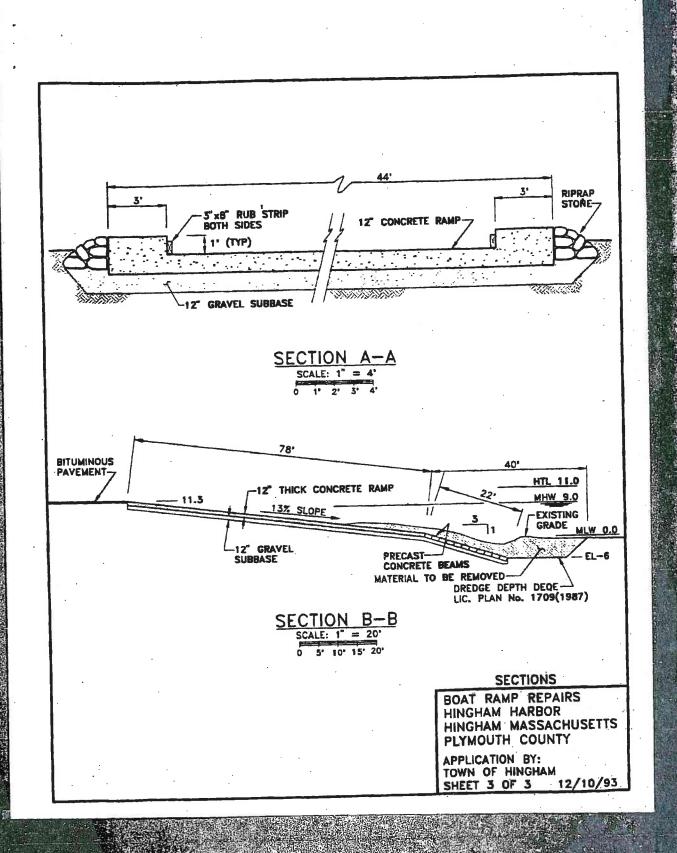
ACC. NO. 04558

USACE & MA-HUL-EG-276 034-050-000-050-100

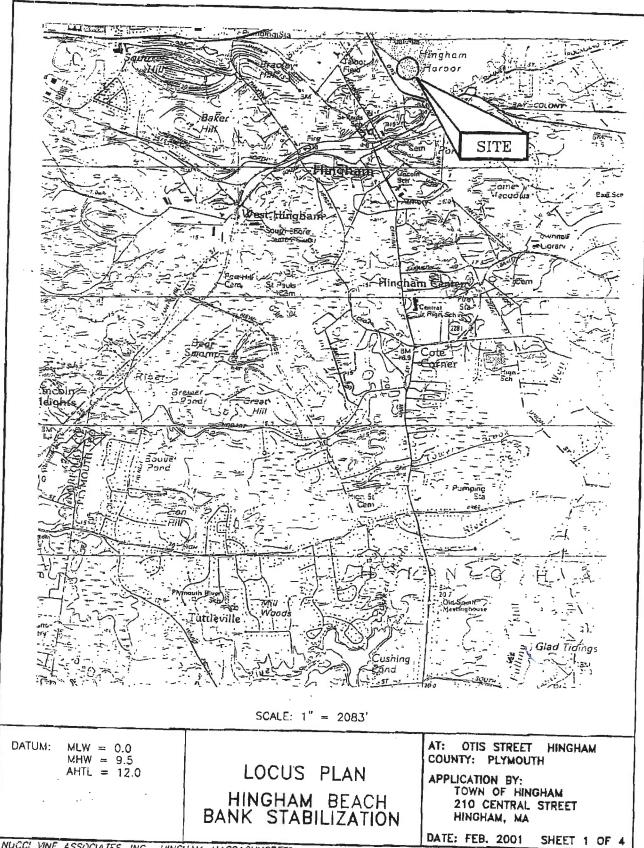




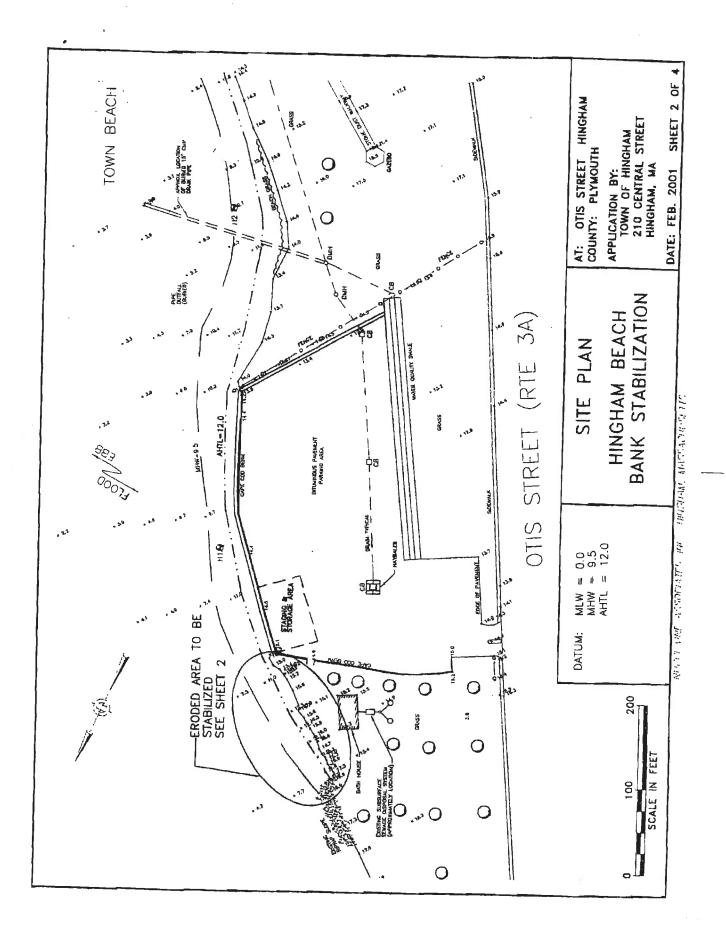


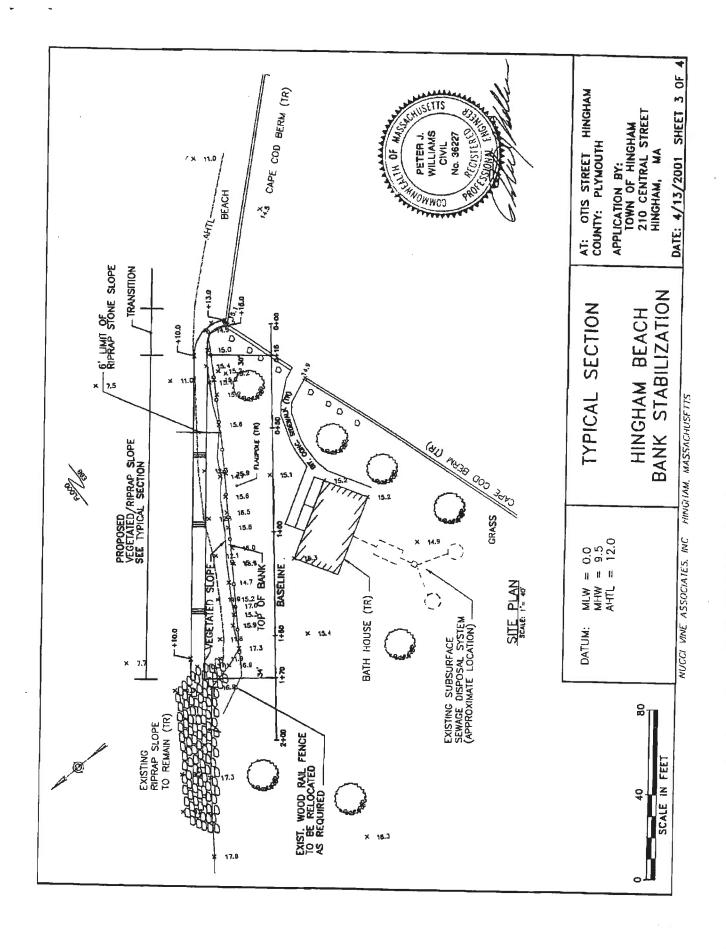


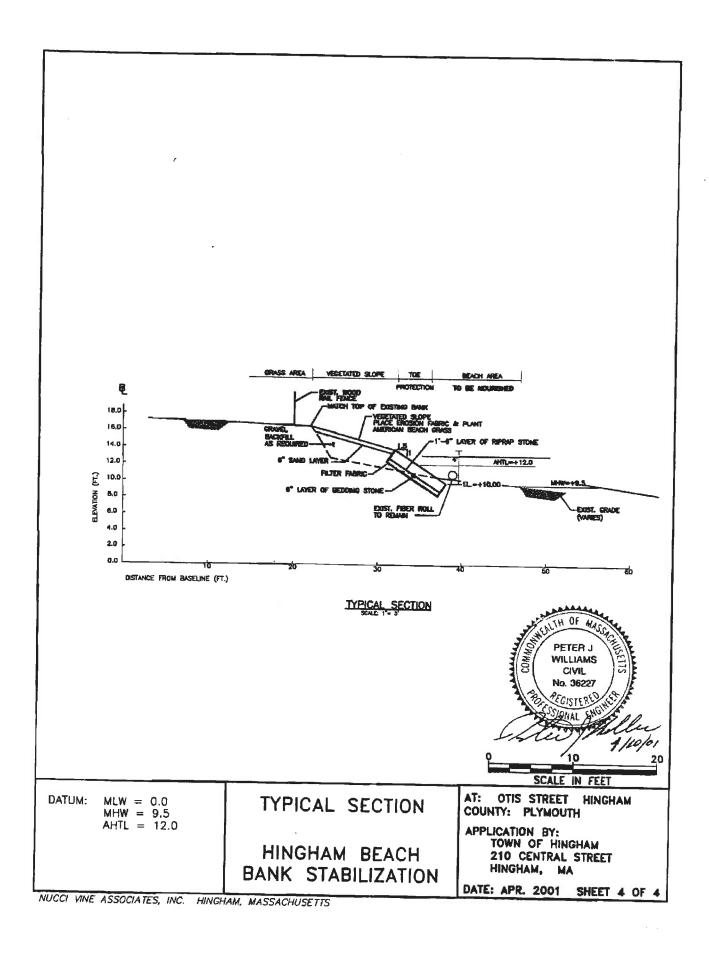
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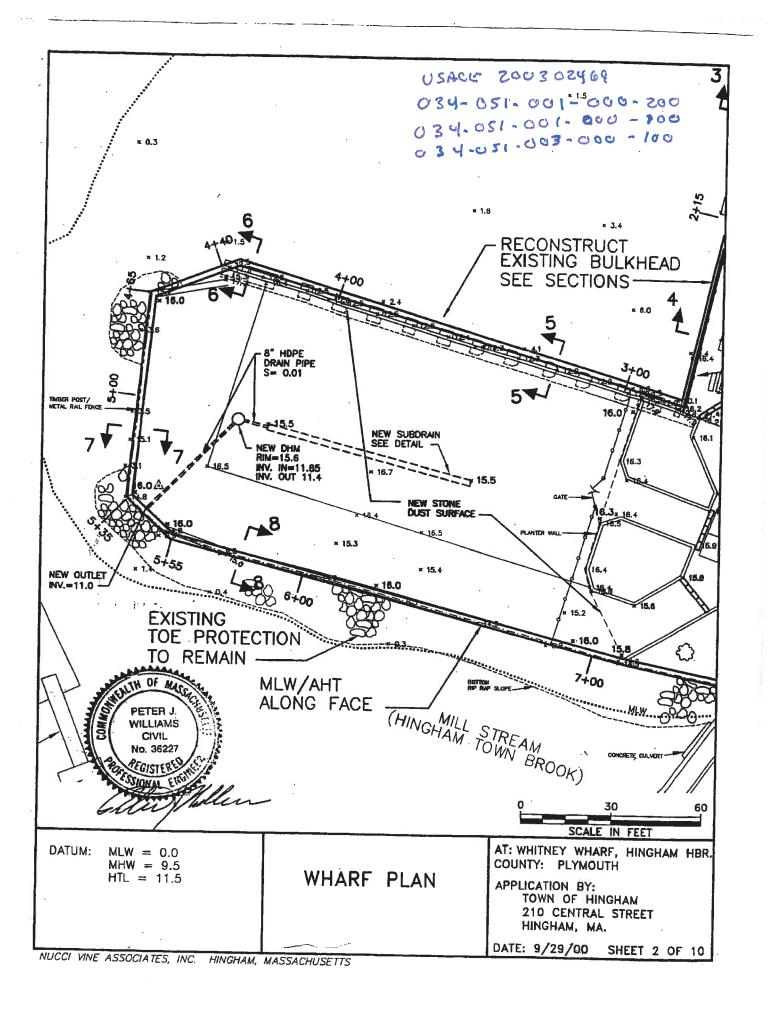


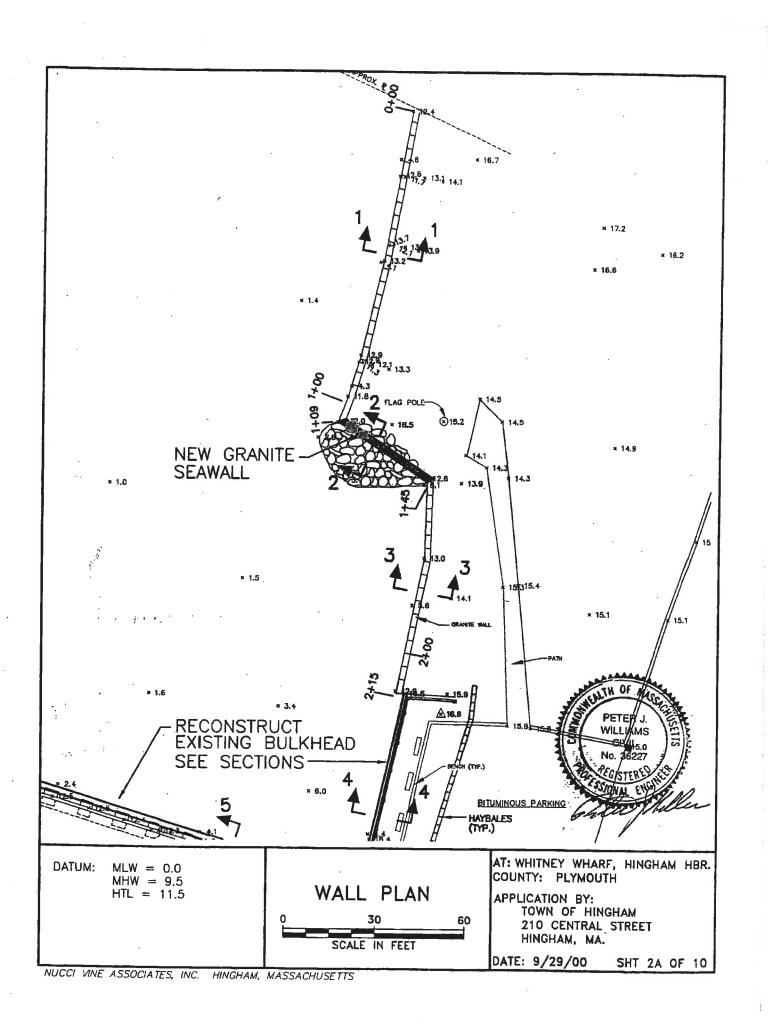
NUCCI VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

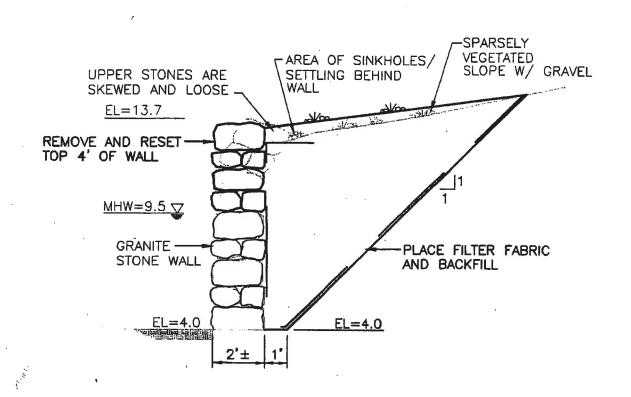




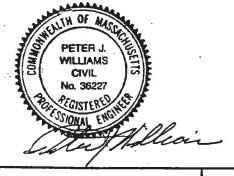








PROPOSED SECTION 1
STATION 0+00 TO 1+09
SCALE: 1"=4"



SCALE IN FEET

DATUM: ML

MLW = 0.0MHW = 9.5

HTL = 11.5

SECTION 1

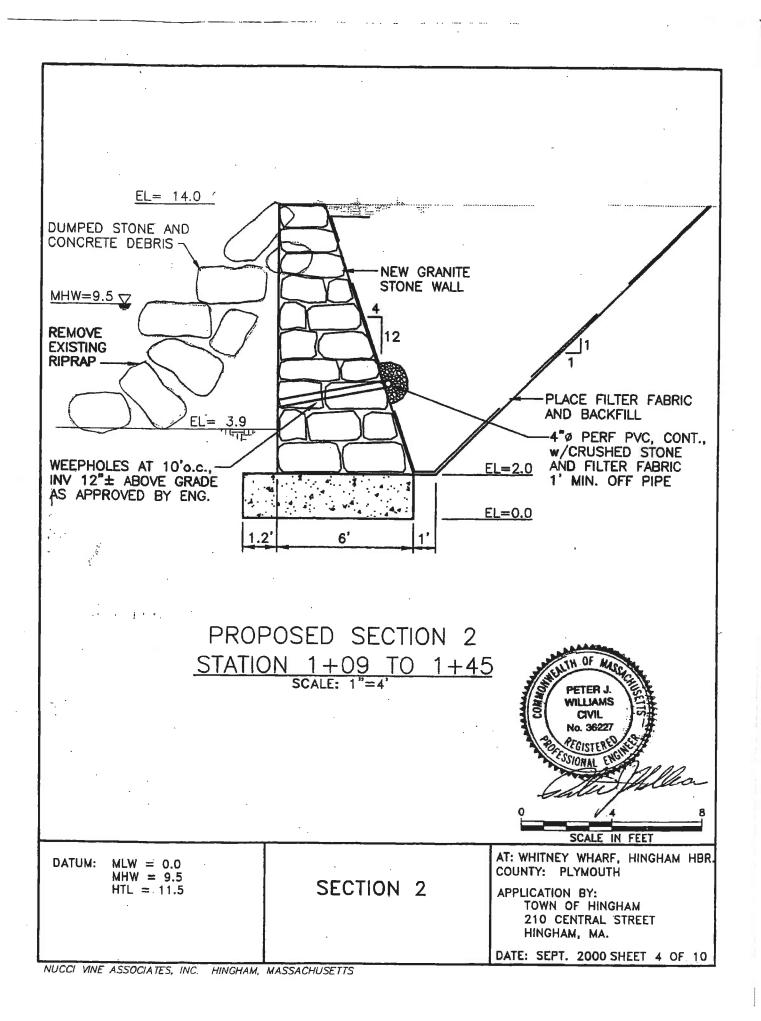
AT: WHITNEY WHARF, HINGHAM HBR. COUNTY: PLYMOUTH

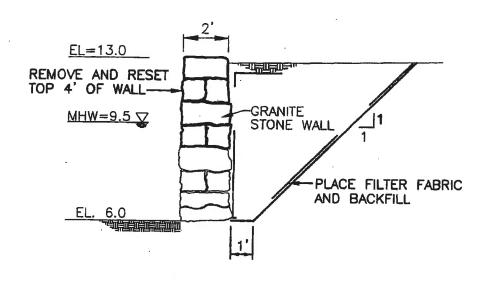
APPLICATION BY:

TOWN OF HINGHAM 210 CENTRAL STREET

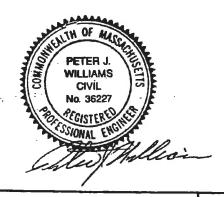
HINGHAM, MA.

DATE: SEPT. 2000 SHEET 3 OF 10





PROPOSED SECTION 3 STATION 1+45 TO 2+15 SCALE: 1"=4"



DATUM: MLW = 0.0 MHW = 9.5

HTL = 11.5

SECTION 3

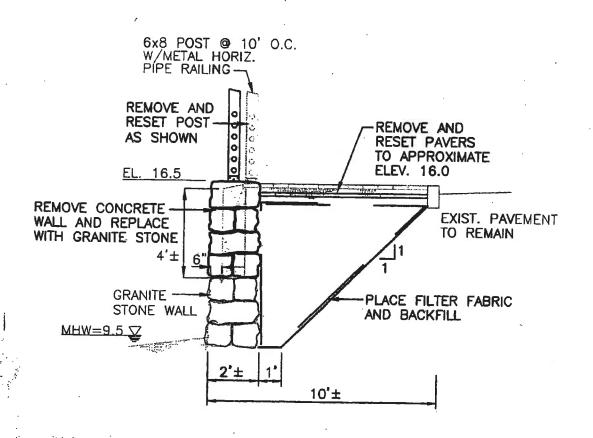


AT: WHITNEY WHARF, HINGHAM HBR. COUNTY: PLYMOUTH

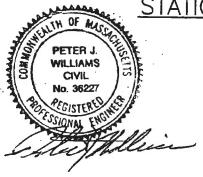
APPLICATION BY: TOWN OF HINGHAM 210 CENTRAL STREET HINGHAM, MA.

DATE: SEPT. 2000 SHEET 5 OF 10

NUCCI VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS



PROPOSED SECTION 4 STATION 2+15 TO 2+80 SCALE: 1"=4"



SCALE IN FEET

DATUM: MLW = 0.0

MHW = 9.5

HTL = 11.5

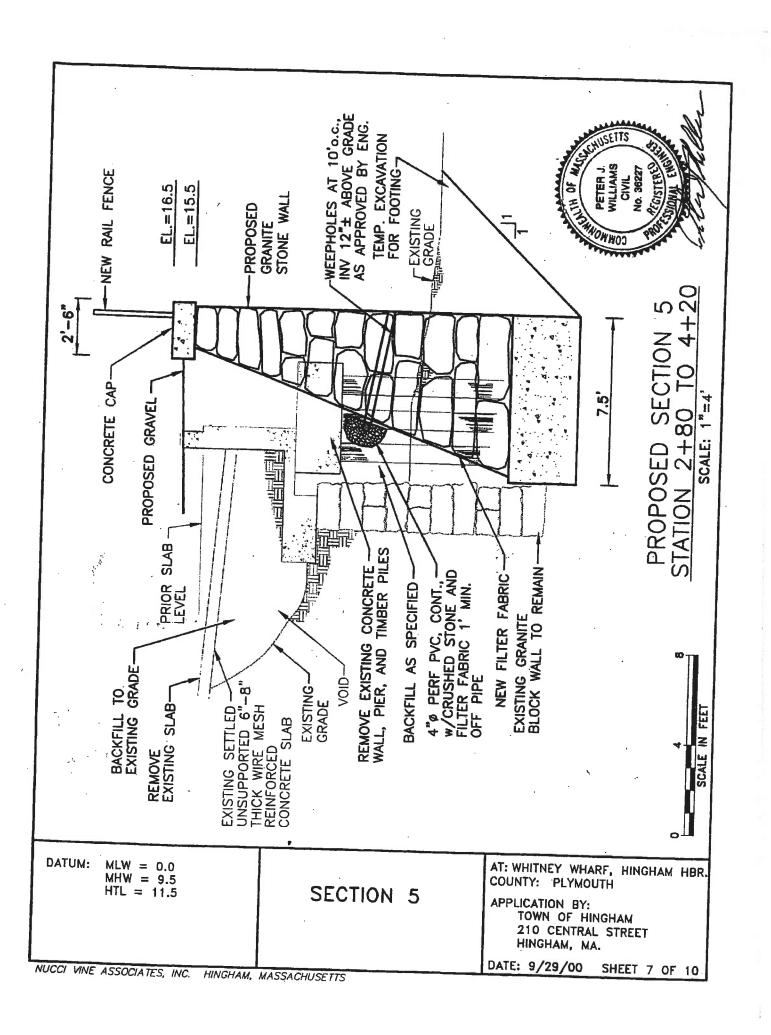
SECTION 4

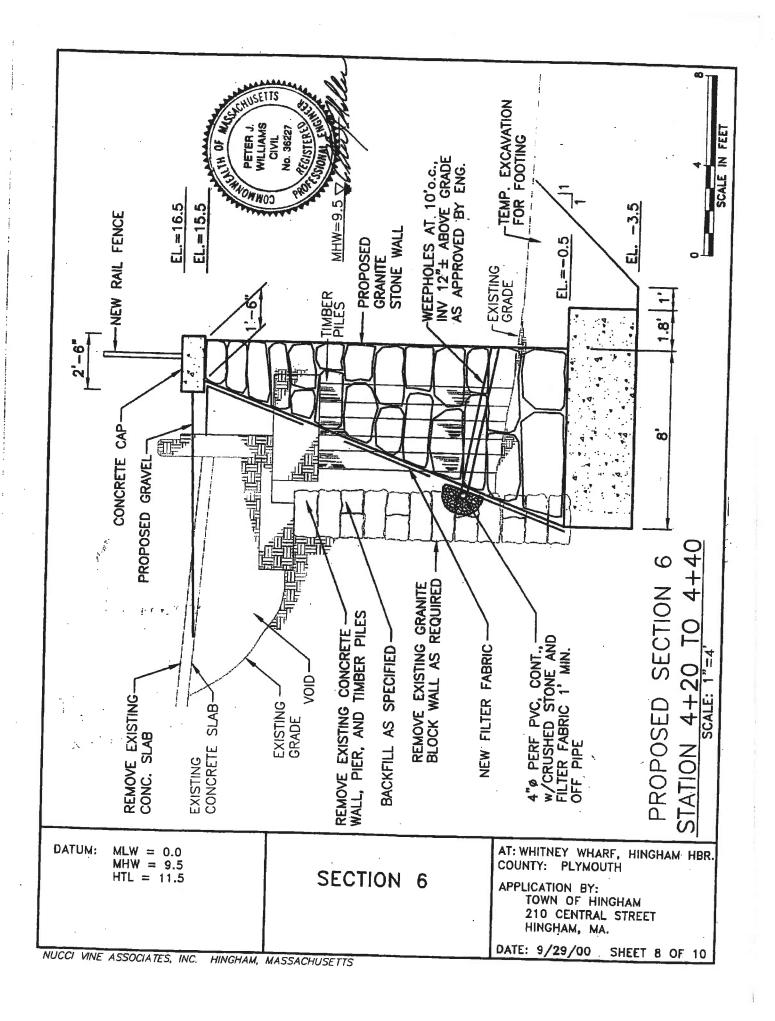
AT: WHITNEY WHARF, HINGHAM HBR. COUNTY: PLYMOUTH

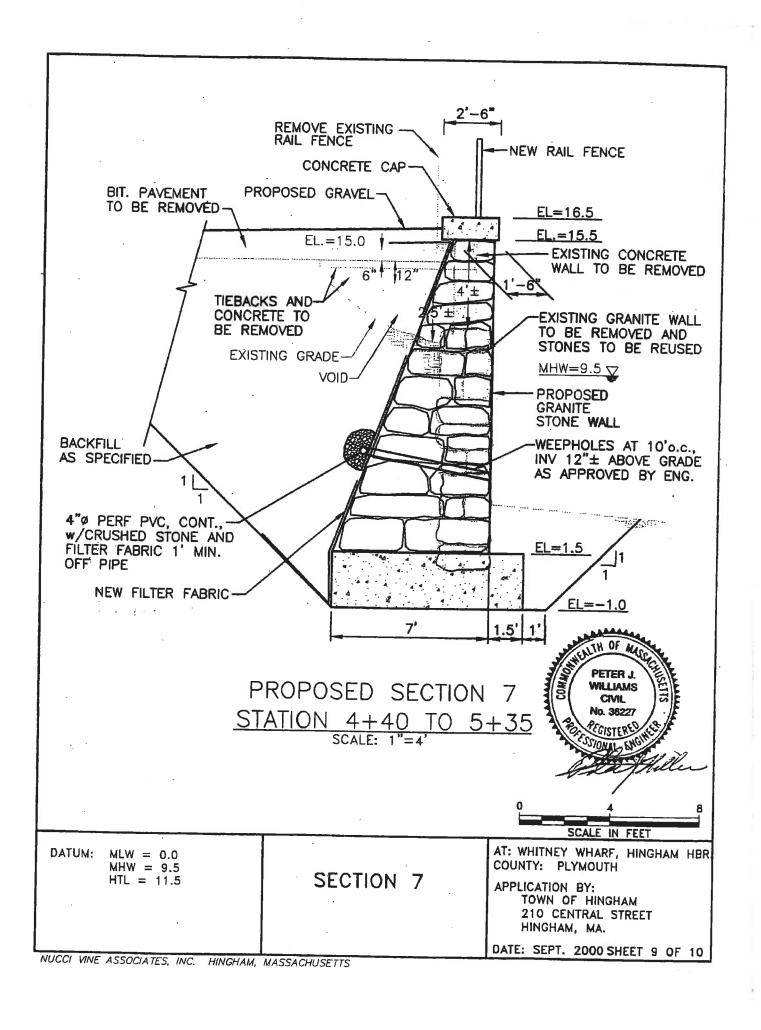
APPLICATION BY: TOWN OF HINGHAM 210 CENTRAL STREET HINGHAM, MA.

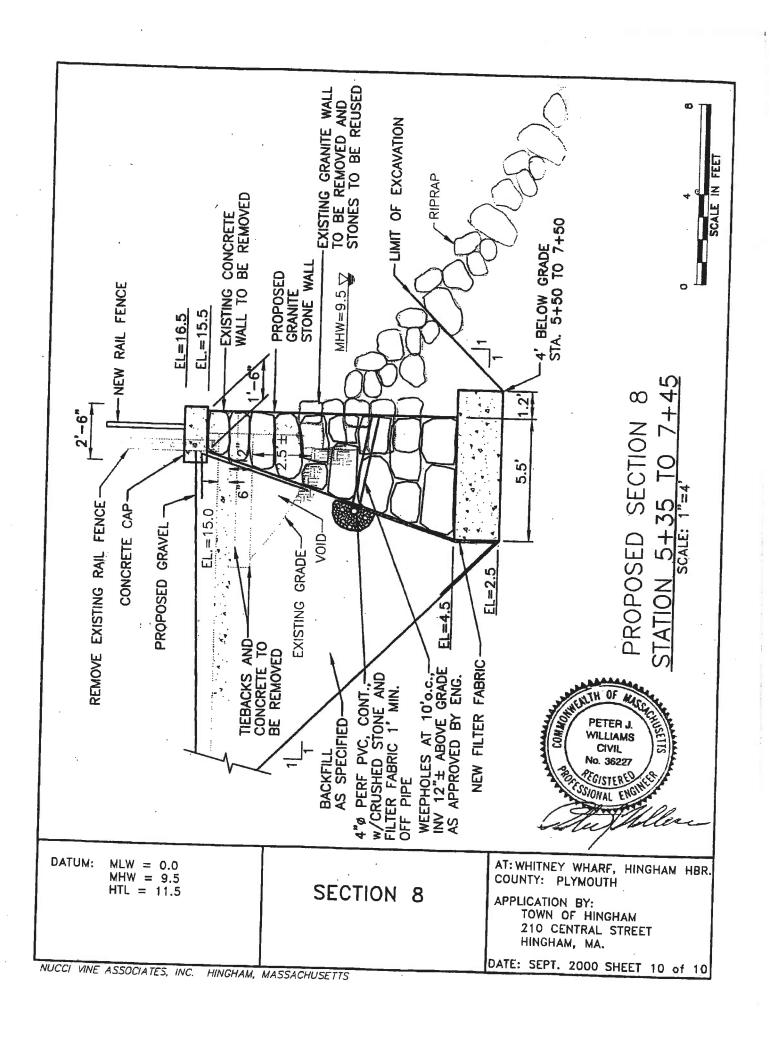
DATE: SEPT. 2000 SHEET 6 OF 10

NUCCI VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS









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