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

Town of Plymouth

Prepared for: Office of Coastal Zone Management Boston, MA

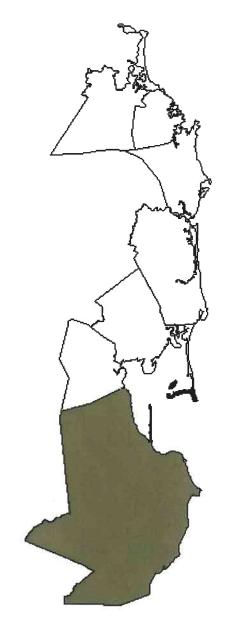
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Presented by:

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In Association With:

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Bourne Consulting Engineering
Waterfront Engineers

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Section I

Town of Plymouth

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.
 - Structures that were determined to be private were not included.
 - O Undocumented structures considered to be on private land, but having the potential to have been publicly built and/or maintained, were identified as having an "unknown ownership".



- The prioritizing of structures was based primarily on risk to general infrastructure and density of housing. Infrastructure included was buildings. The study did not consider all infrastructure issues including:
 - O No consideration on utility impacts water, electrical, sewer, gas
 - o No consideration of roadway and bridge protection
 - o Evacuation routes were not considered within the investigation
 - o Location of Emergency Shelters were not included in priority assessments
- Research was performed at the local, state and federal levels. The local research was limited to location and documenting available coastal structure contract drawings. Research at DCR was restricted to available historic construction plans for coastal structures at the MA-DCR Waterways office in Hingham, MA. 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



<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.

<u>Earliest Structure Record:</u> 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 / 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.

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



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.

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

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

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

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

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

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.



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

<u>Pictures:</u> At the time of the field assessments, digital photographs were taken to provide a general overview of the structure. The number of pictures 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.

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

MA - DCR Documents: 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:

Structure Condition Ratings – 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

I-6



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.



• Timber Bulkheads – Timber bulkheads were presumed to be constructed with timber piles at eight foot on center, horizontal wales and vertical four inch sheathing. The unit costs for installed materials used were \$1,500 per pile and \$7.50 per bfm.

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

<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.



EXHIBIT A

Structure Condition Table – 5 Level Rating System

Co	liminary Indition 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 to provide protection from major coastal storm	None
В	Good	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
		Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide additional material for full protection and extended life	
D	Poor	Structure exhibits advanced levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure has strong risk of significant damage and possible failure during a major coastal storm Structure should be monitored until repairs/reconstruction can be initiated. Actions taken to reconstruct structure to regain full capacity to resist a major coastal storm.	Мајог
		Landform eroded, stability threatened. Landform not adequate to provide protection during major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	
		Conditions of structure/landform may warrant emergency stabilization as failure may result in potential loss of property and/or life. Landform eroded, loss of integrity	
F	Critical	Structure exhibits critical levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure provides little or no protection from a major coastal storm. Actions taken to totally reconstruct structure to regain full capacity.	Immediate
		Landform stability is severely compromised, rate of erosion/material loss may be increasing, and landform does not provide adequate protection from a major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	



EXHIBIT B Priority Rating System - 5 Level Rating System

Pric	eliminary ority Level sessment	Level Based Upon Perceived Immediacy of Action and Presence of Potential Risk to Inshore Structures if Not Corrected	Level of Action Required
I	None	No Inshore Structures or Residential Dwelling Units Present	Long 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



CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

EXHIBIT C

September 14, 2006

REPAIR / REHABILITATION COSTING DATA

Cost per linear foot of structure

STRUCTURETYPE	STRUCTURE MATÉRIALS	STRUCTURE HEIGHT,		STI B	RUCTURE CONDITION R	ATING D	E
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feel	\$0	\$152	\$759	\$1,518	\$1,782
		1D To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
	į	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
	Emgle and	10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,772
		Over 15 Feet	\$0	\$343	\$1,716	\$3,432	\$3,795
	STONE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
	DI GIAL	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
	Wood Park	5 To 10 Feet	\$0	\$127	\$632	\$1,265	\$1,463
		10 To 16 Fest	\$0	\$161	\$804	\$1,203	\$1,403
		Over 15 Feet	\$0	\$202	\$1,008	\$2,017	\$2,380
	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
OASTAL BEACH		5 To 10 Feet	\$0	\$127	\$634	\$1,267	\$1,267
OASTAL BEACH		10 To 15 Feet	\$0	\$224	\$1,122	\$2,244	\$2,244
		Over 15 Feel	\$0	\$396	\$1,980	\$3,960	\$3,960
	G SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
OASTAL DUNE		5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
CACTAL BOILE		10 To 15 Feet	\$0	\$79	\$395	\$790	\$790
		Over 15 Feet	\$0	\$132	\$660	\$1,320	\$1,320
EVETMENT	STONE	Under 5 Feet	\$0	\$66	\$333	\$664	\$730
E A E LIMEIA I		5 To 10 Feet	\$0	\$120	\$601	\$1,201	\$1,300
		10 To 15 Feet	\$0	\$157	\$781	\$1,564	\$1,696
		Over 15 Feel	\$0	\$247	\$1,234	\$2,468	\$2,666
ROIN	STONE	Under 5 Feet	\$0	\$157	\$664	\$1,328	\$1,460
110111		5 To 10 Feet	\$0	\$157	\$1,201	\$2,402	\$2,600
	Transition.	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.



Section II

Town of Plymouth

Community Findings



Section II - Community Findings - Town of Plymouth

COMMUNITY DESCRIPTION

The Town of Plymouth consists of a land area of 96.5 square miles out of a total area of 134 square miles and had a population of 51,701 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 that is directly exposed to open ocean waves is 19.0 miles with the remaining shoreline semi-protected by offshore structures or landforms. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Plymouth, there were 43 structures which had public or unknown ownership identified which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 11 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 TYPI	AND QUANTITY	- Town of Plymouth
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	Total		Struct	u re Condition		Total Length	
Primary Structure (1)	Structures	Α	В	c	D	F	(feet)
Bulkhead / Seawall	4			3	1		1835
Revetment	30		11	16	2	1	32567
Groin / Jetty	8		1	1	3	3	5415
Breakwater	1			1			2900
Coastal Dune							
Coastal Beach							
	43		12	21	6	4	42717

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 Plymouth's case there are a total of 43 structures which would require approximately \$27.2 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 \$11.2 million would be required to upgrade the Town's coastal protection.



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STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Plymouth

	Total	Total Structure Condition Rating									
Primary Structure (1)	<u>Structures</u>	Α		В		С	D		F	Total	Cost
Bulkhead / Seawall	4				\$	1,155,396	\$ 333,960			\$ 1,48	9,356
Revetment	30		\$	938,308	\$	9,093,916	\$ 4,840,572	\$	335,782	\$ 15,20	08,578
Groin / Jetty	8		\$	117,810	\$	76,355	\$ 5,145,690	\$	583,968	\$ 5,92	23,823
Breakwater	1				\$	4,536,180				\$ 4,53	36,180
Coastal Dune										\$	-
Coastal Beach										\$	-
	43	\$ -	\$	1,056,118	\$	14,861,847	\$10,320,222	\$	919,750	\$ 27.15	7.937

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

STRUCTURE OWNERSHIP / REPAIR COST - Town of Plymouth

	Total	Total Structure Condition Rating								
Primary Structure (1)	Structures	A		В	С	D		F	Tot	al Cost
Town Owned	43			\$ 1,056,118	\$ 14,861,847	\$10,320,222	\$	846,754	\$ 27	084,941
Commonwealth of Massachusetts Federal Government Owned									\$ \$	-
Unknown Ownership	1						\$	72,996	\$	72,996
									\$	-
	44	\$	-	\$ 1,056,118	\$ 14,861,847	\$10,320,222	\$	919,750	\$ 27	157,937

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 Plymouth'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.



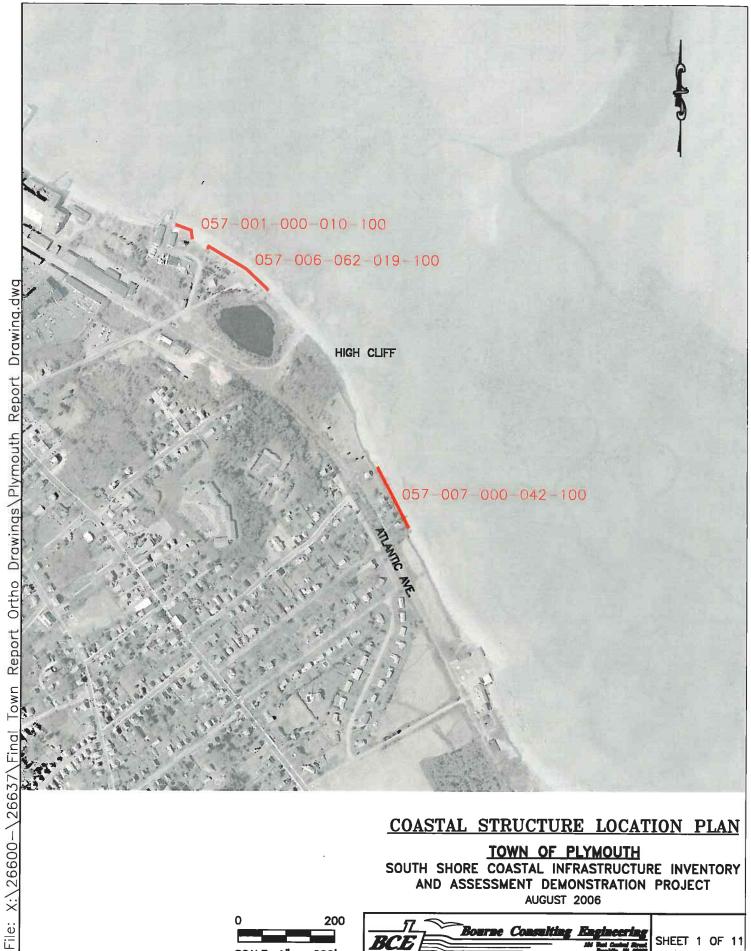
II - 2

Section III

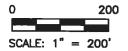
Town of Plymouth

Structure Assessment Reports



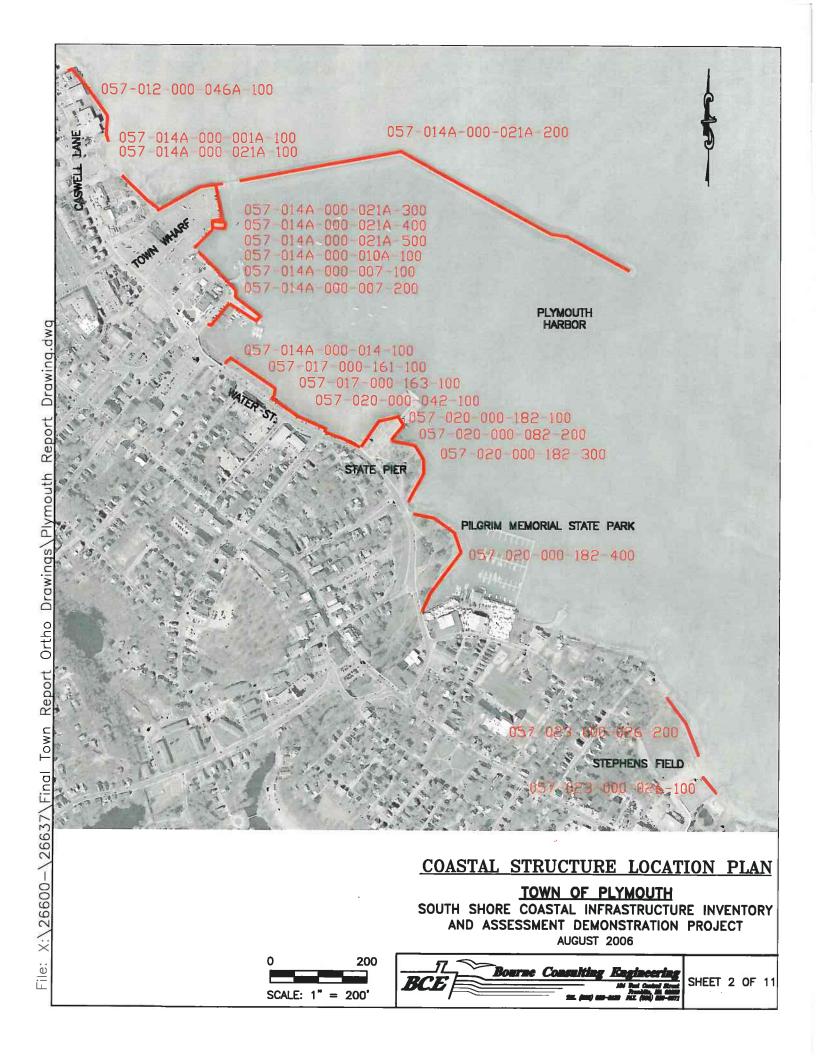


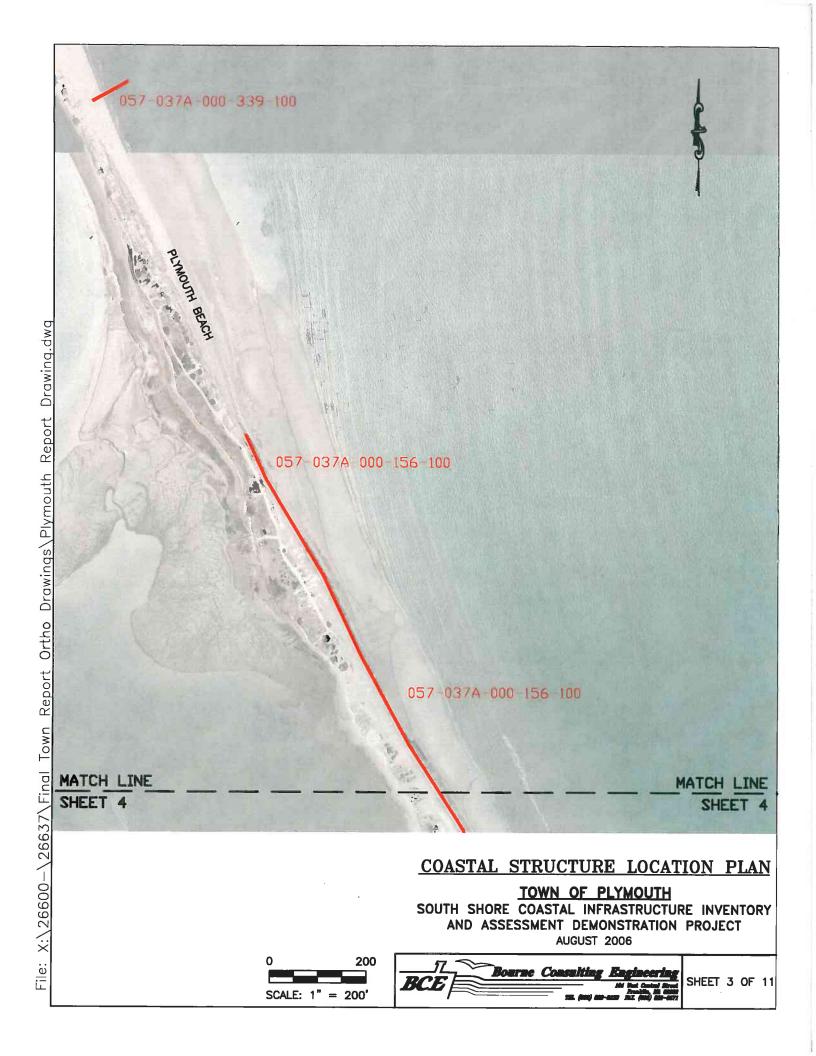
SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT
AUGUST 2006

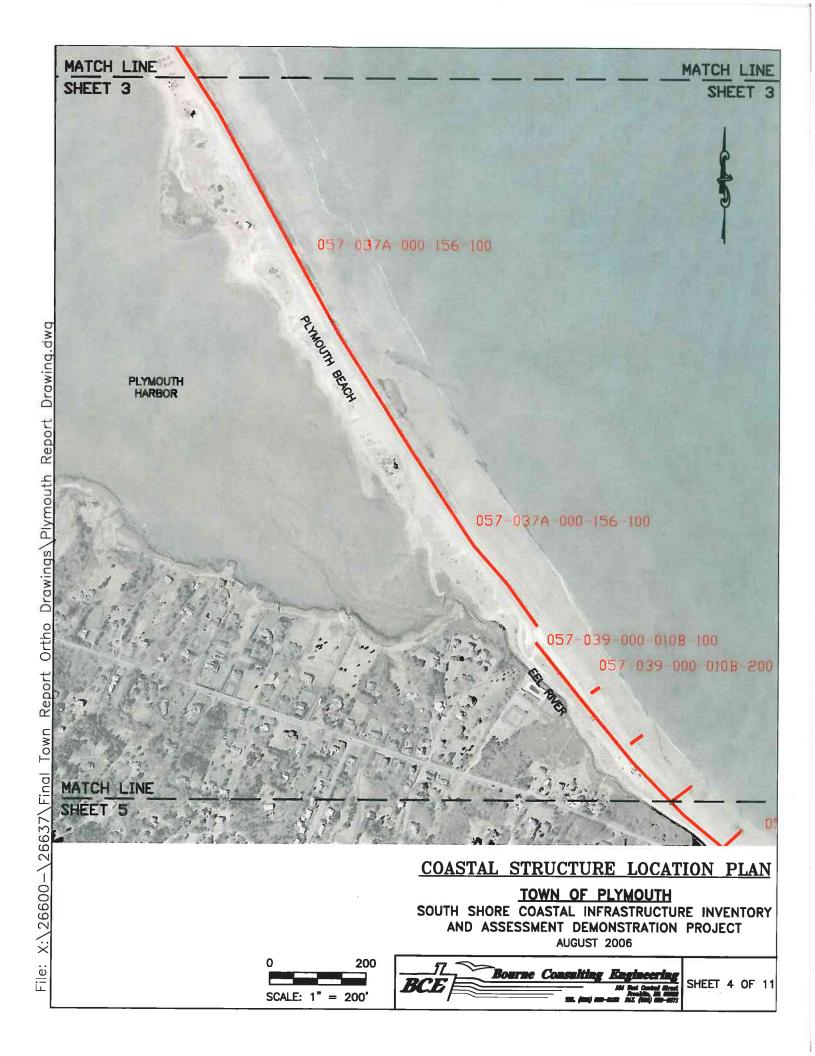


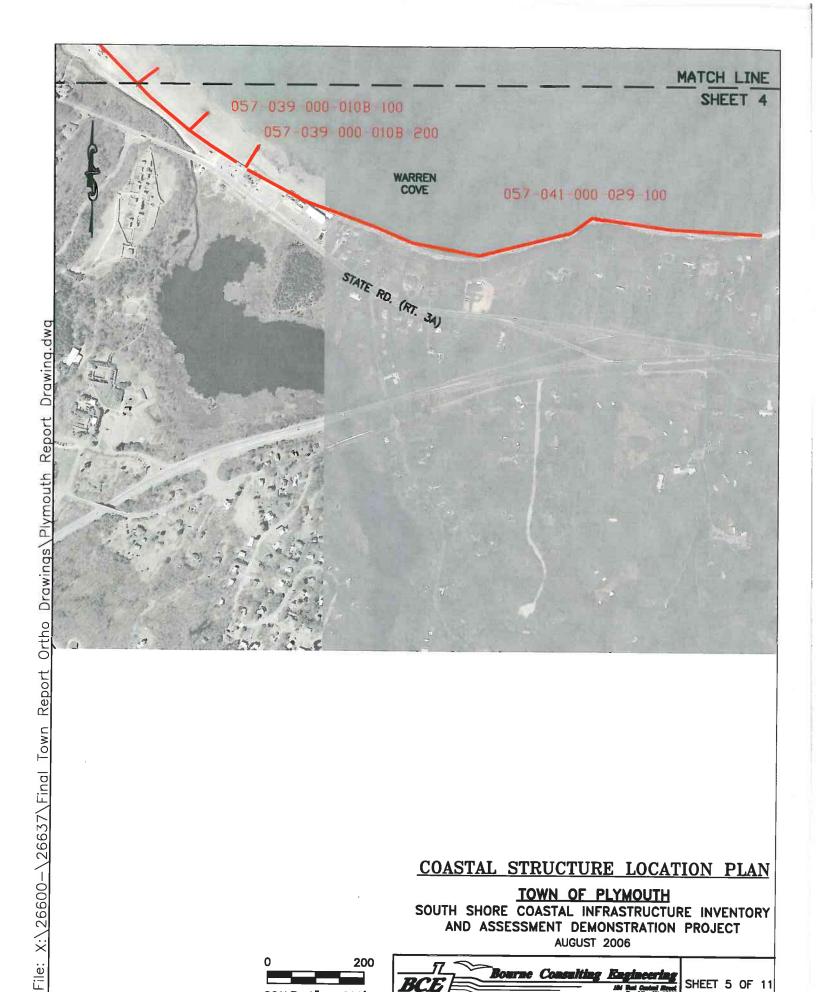


SHEET 1 OF 11





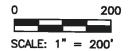




COASTAL STRUCTURE LOCATION PLAN

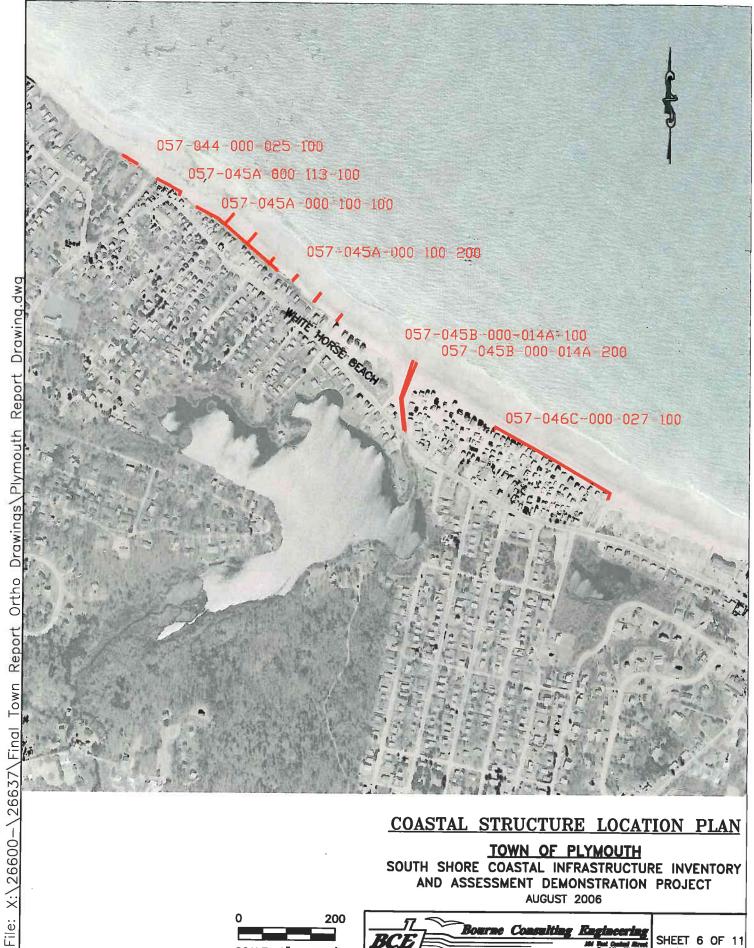
TOWN OF PLYMOUTH

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006

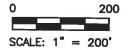




SHEET 5 OF 11

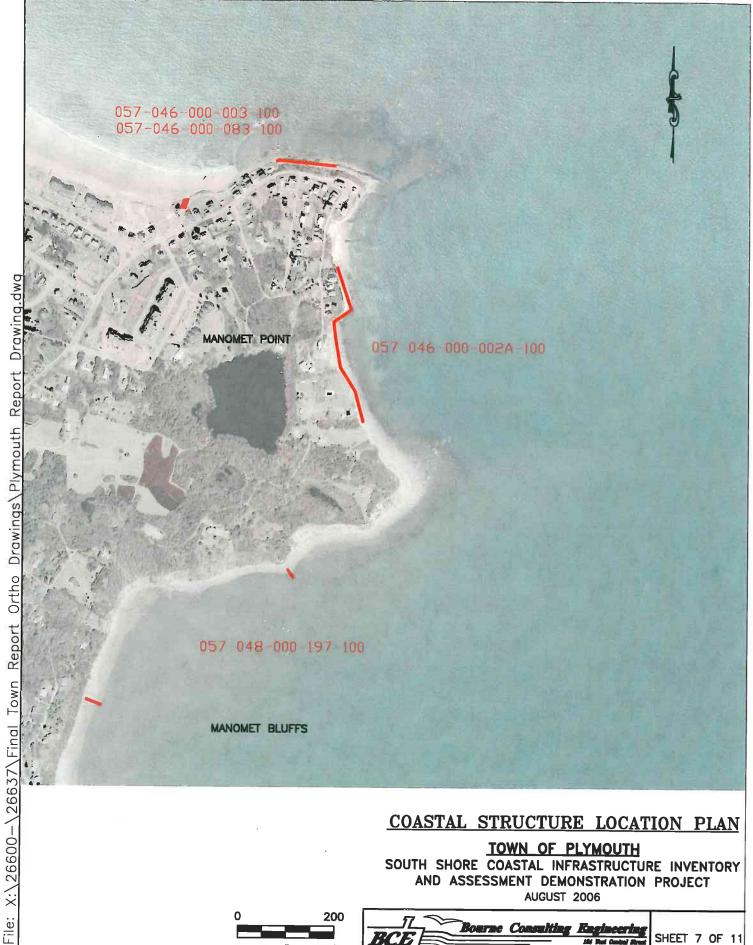


AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006



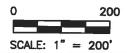


SHEET 6 OF 11



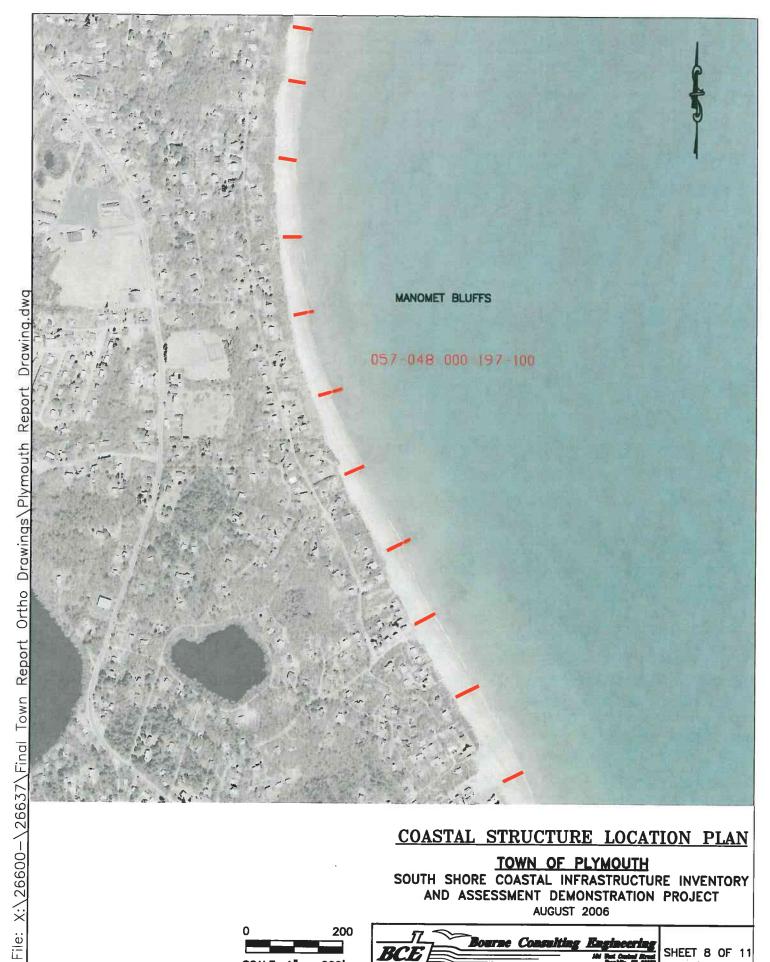
TOWN OF PLYMOUTH

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006

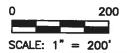




SHEET 7 OF 11

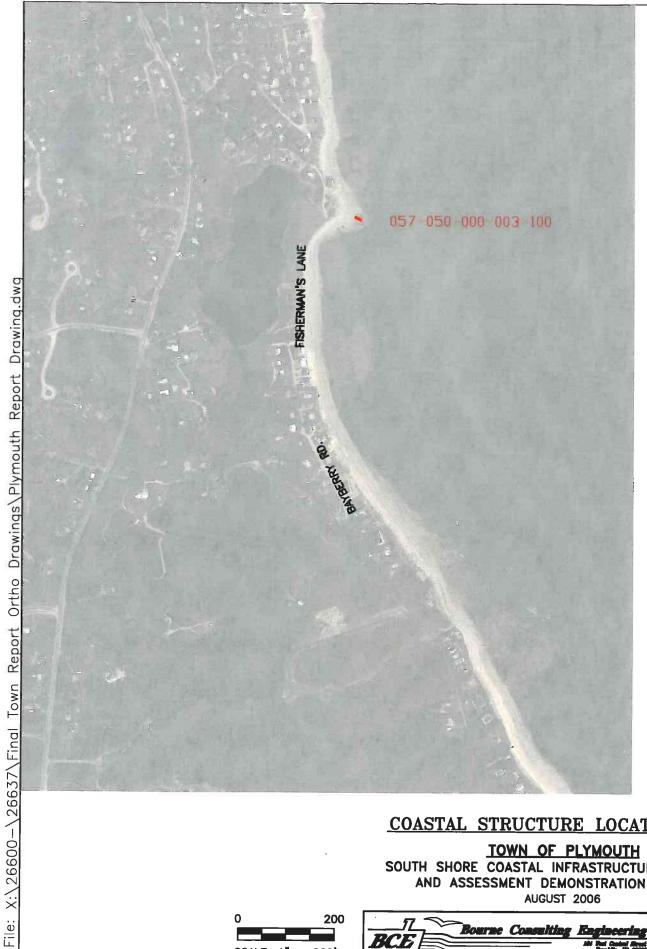


TOWN OF PLYMOUTH
SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006



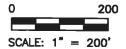


SHEET 8 OF 11



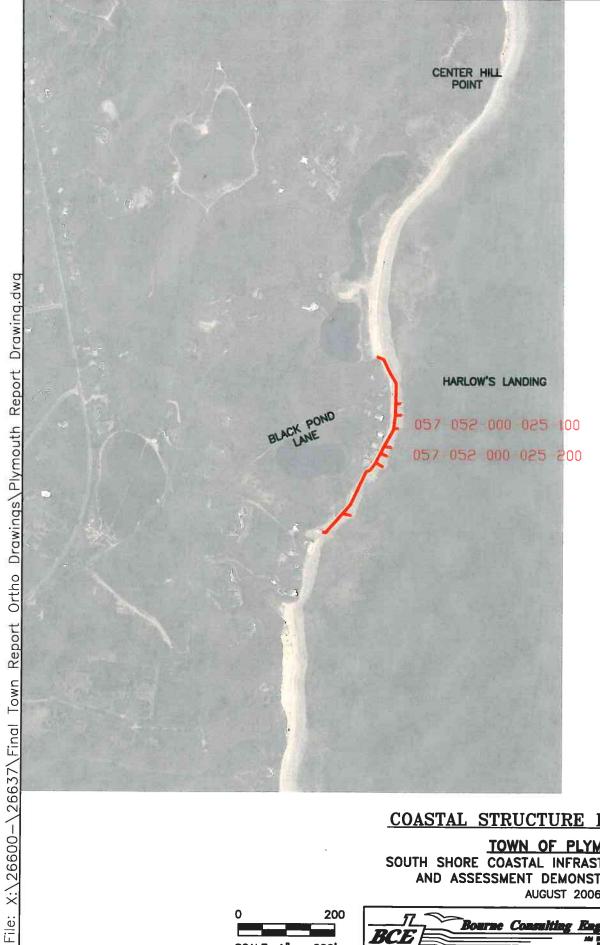
COASTAL STRUCTURE LOCATION PLAN

TOWN OF PLYMOUTH
SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006



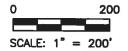


SHEET 9 OF 11



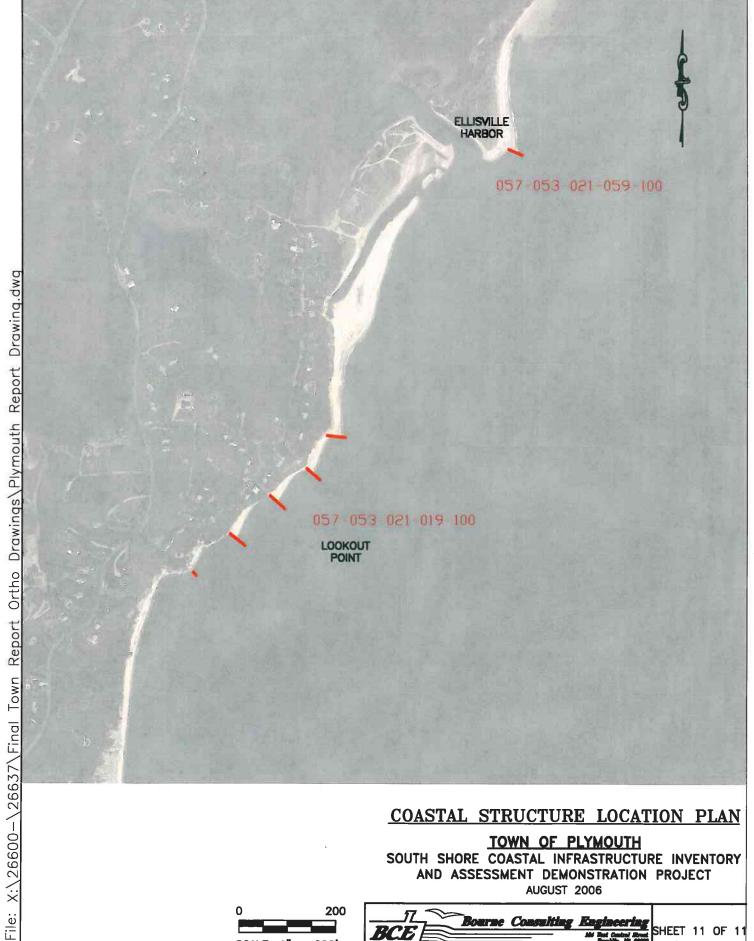
COASTAL STRUCTURE LOCATION PLAN

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006





SHEET 10 OF 11



TOWN OF PLYMOUTH

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT AUGUST 2006

200

SCALE: 1" = 200"



SHEET 11 OF 11

Structure Assessment Form

Town: Plymouth

Structure ID: 057-001-000-010-100

operty Owner:		Location:			Date:	100 100 100 100 100 100 100 100 100 100
ocal	100 U 100 00 100 100 100 100 100 100 100	High Cliff	A CONTRACT OF THE PARTY OF THE			8/31/2006
esumed Structure	Owner:	Based On Co	omment:			
ocal	CYVIICI .	Property Ov	and the same of th	and the same of th	18.11	The second secon
				C-ti-	nated Reconstructi	on/Penair Cost
Owner Name:		Earliest Stru	cture Record:	Esun	lated Reconstructi	\$103,904.00
lymouth		N. S. Analddau, co vol ann air an air air air air an air an Analddau, co vol an Analddau, co vol an Analddau,	Palatrica si indicata in consensationi della consensationa della c	and the state of t	genskladet op fragelijk in generaleskenstisk of sich observale och 1448 blick blick blick in som som som som s De stander og for som for til som blick opprettigt og stande sich op for hav sich blick film blick blick blick	The second section is a second section of the second section of the second section is a second section of the second section of the second section sec
ength: Top Ele	evation: FIRM Map Z	one: FIRM Map Elev	ation:		Maria Service	
173		V4	15			
Feet Feet N	AVD 88	Feet N	GVD			
rimary Type:	Primary Material:	Primary Height	•	THE PARTY		
Revetment	Stone	5 to 10 Feet				41
econdary Type:	Secondary Material:	Secondary Hei	ght:	A41		
cconduty Type:						
turisti ina Crimman				100		
tructure Summary This structure is a	stone revetment fronting a co	oncrete seawall. The st	tone is weathered a	and becoming unravel	ed. The wall is no	t visible for
evaulation.						
Condition	С		Priority	III		
Rating	Fair		Rating	Moderate Prior	•	
Level of Action	Moderate		Action		ctive Project Impro	vement
Description	Structure is sound but may	exhibit minor	Description	Listing	res with potential	for
-	deterioration, section loss, undermining, and/or scour.	cracking, spailing, Structure adequate	Description	Infrastructure D	Damage and/or Lin	nited
	to withstand major coastal:	storm with little to		Residential Dw 100 feet of sho	vellings (<1 dwellir oreline)	ng impacted /
	moderate damage. Actions structure to provide full prof	tection from major		100 1000 01 0110	,	
	coastal storm and for exten	iding life of				
	structure. Moderate wind of landform exists. Landform	may not be sufficient				
	to fully protect shoreline du	ring a major coastal				
	storm. Actions taken to pro material for full protection a	and extended life.				
	•					
The state of the s	ne van alle en al le er en en en le gegenderde die de 2005 in de 2004 dans de 2005 dans de 2004 de 2004 de 200 De compositor de 2004	hand destinated successions and some state of the sound o	guerer som had delt deltage och det statistiske deltage frem och had statistiske fra tradi- Fred varid välligt i erfolk och deltage frem och deltage er och fred frem och deltage fra frem och deltage frem och de	och ede missier fre der verget einstallerindstart i Staffe in volge verhood verkreitsbeliefe uit die staffe in Springerinde missier der die Staffe in die Staffe verdeutstart in die staffe verdeutstart (verdeutstart in die	ert frakken till, sim skjerre († 144) i hardelse frakklik (175), sig stimmtelskatter (176), frakklik Oppgif 19. jehnny men og skjellynd sjellem skyllet (1800), sig stimmtelskatter (1800), sig stimmtelskatter (1	Manager Service (Control of the Service of the Serv
		Structure Docum	nente:			
Structure Imag 057-001-000-010-		MA DPW		Proposed Drainage,	057-001-000-01	0-100-DCR1A
307-001-000-010-		MA DPW		Proposed Drainage,	057-001-000-01	0-100-TWN1A
		IMA DI W	100. 1000 II		1	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-006-062-019-100

			Location:		Date:			
_ocal			High Cliff		8/31/2006			
Presumed Structure	e Owner:		Based On Comment:					
ocal		Assessment and an action	Property Owner	ship	The state of the s			
Owner Name:			Earliest Structur	e Record:	Estimated Reconstruction/Repair Cost:			
Plymouth				0	\$63,664.00			
ength: Top El	evation: FIR	M Map Zone:	FIRM Map Elevation	estri seetos sates rispetes, metavinimee sanasta altimi katmanes americamini anetamalaa altaa				
530		V4	1!	and a	the second second second			
Feet Feet N	AVD 88		Feet NGVD)				
rimary Type:	Primary Ma	terial:	Primary Height:	770	THE RESERVE TO SERVE			
levetment	Stone		5 to 10 Feet					
econdary Type:	Secondary M	laterial:	Secondary Height:					
			5 to 10 Feet					
tructure Summary					nere is minor and isolated cracking and displacement			
Rating Level of Action Description	Good Minor Structure observed problems, superficito landform is press adequate to provide coastal storm with a to prevent / limit fut life of structure.	al in nature. Minent. Structure protection from the protection from the damage. Ac	minor nor erosion / landform n a major stions taken	Priority Rating Action Description	Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)			
		Stri	octure Document	S:				
tructure Image 57-006-062-019-1		MAI		R 1967 Prop	osed Shore 057-006-062-019-100-DCR1A			

Structure Assessment Form

Town: Plymouth

Structure ID: 057-007-000-042-100

Primary Material: Stone Secondary Material: evetment. There are ships: erate ture is sound but may ex	Primary Heigh Under 5 Feet Secondary Hei	comment: wings ucture Record: 1957 vation: 15 NGVD tt:	e slopes evident, o	timated Reconstruction/Repair Cost: \$158,004.00 conditions worsens towards the
Primary Material: Stone Secondary Material: evetment. There are ships.	Earliest Structure: FIRM Map Elev V4 Feet N Primary Height Under 5 Feet Secondary Height	wings ucture Record: 1957 vation: 15 NGVD t: ight: d slumping of the side Priority Rating	e slopes evident, o	\$158,004.00
Primary Material: Stone Secondary Material: evetment. There are ships.	Earliest Structure: FIRM Map Elev V4 Feet N Primary Height Under 5 Feet Secondary Height	wings ucture Record: 1957 vation: 15 NGVD t: ight: d slumping of the side Priority Rating	e slopes evident, o	\$158,004.00 \$conditions worsens towards the
Primary Material: Stone Secondary Material: evetment. There are shies. Primary Material: Secondary Material: Secondary Material: Evetment. There are shies.	Earliest Stru FIRM Map Elev Feet N Primary Heigh Under 5 Feet Secondary Hei	vation: 15 NGVD tt: d slumping of the side Priority Rating	e slopes evident, o	\$158,004.00
Primary Material: Stone Secondary Material: evetment. There are shies. Primary Material: Secondary Material: Secondary Material: Evetment. There are shies.	Primary Heigh Under 5 Feet Secondary Hei	vation: 15 NGVD tt: dd slumping of the side	e slopes evident, o	\$158,004.00 \$conditions worsens towards the
Primary Material: Stone Secondary Material: evetment. There are shies. Primary Material: Secondary Material: Secondary Material: Evetment. There are shies.	Feet N Primary Heigh Under 5 Feet Secondary Hei	15 NGVD tt: ight: d slumping of the side Priority Rating	IV High Priority	
Primary Material: Stone Secondary Material: evetment. There are shies. Primary Material: Secondary Material: Secondary Material: Evetment. There are shies.	Feet N Primary Heigh Under 5 Feet Secondary Hei	15 NGVD tt: ight: d slumping of the side Priority Rating	IV High Priority	
Primary Material: Stone Secondary Material: evetment. There are ships: erate ture is sound but may ex	Feet N Primary Heigh Under 5 Feet Secondary Hei	NGVD t: ight: d slumping of the side Priority Rating	IV High Priority	
Primary Material: Stone Secondary Material: evetment. There are shi	Primary Heigh Under 5 Feet Secondary Hei	ight: Id slumping of the side Priority Rating	IV High Priority	
Stone Secondary Material: evetment. There are ships. erate ture is sound but may ex	Under 5 Feet Secondary Hei	ight: Indicate the side of the	IV High Priority	
Secondary Material: evetment. There are ships. erate ture is sound but may ex	Secondary Hei	d slumping of the side Priority Rating	IV High Priority	
evetment. There are shi		d slumping of the side Priority Rating	IV High Priority	
e. Frate ture is sound but may ex	ifted armor stone an	Priority Rating	IV High Priority	
e. Frate ture is sound but may ex	ifted armor stone an	Priority Rating	IV High Priority	
e. Frate ture is sound but may ex	ifted armor stone an	Priority Rating	IV High Priority	
ture is sound but may ex		Rating	High Priority	Next Project Construction Listing
ture is sound but may ex		_		Next Project Construction Listing
ture is sound but may ex			Johnston 101	Next Project Construction Listing
al storm and for extendir ture. Moderate wind or v orm exists. Landform ma y protect shoreline durin I. Actions taken to provice	acking, spalling, tructure adequate orm with little to alken to reinforce ction from major ing life of wave damage to ay not be sufficient ing a major coastal de addition	Description	for Infrastruct Density Resid	nshore Structures with Potential ture Damage and/or Moderate dential Dwellings (1-10 dwellings 00 feet of s horeline)
			posed Shore	057-007-000-042-100-DCR1A
		·		057-007-000-042-100-TWN1A
	ture to provide full protect al storm and for extenditure. Moderate wind or worm form exists. Landform many by protect shoreline during taken to provide.	ture to provide full protection from major that storm and for extending life of ture. Moderate wind or wave damage to form exists. Landform may not be sufficient by protect shoreline during a major coastal and for full protection and extended life. Structure Docur	structure to provide full protection from major all storm and for extending life of ture. Moderate wind or wave damage to form exists. Landform may not be sufficient by protect shoreline during a major coastal at the control of the coastal at the coastal for full protection and extended life. Structure Documents: O1A.jpg MA DPW SEP 1957 Pro	structure to provide full protection from major al storm and for extending life of ture. Moderate wind or wave damage to form exists. Landform may not be sufficient by protect shoreline during a major coastal by Actions taken to provide addition finial for full protection and extended life. Structure Documents: O1A.jpg MA DPW SEP 1957 Proposed Shore

Structure Assessment Form

Town: Plymouth

Structure ID: 057-012-000-046A-100

Property Owner:	addddir y 1541llain 1964 wedi o'i hall teil ae Britan a' web Ling ha blan yn mei bland and ddiad fael brita a' Britan a'r Britan 1964 a britan a'r britan b	Location:	s materialscales to Assessment in the first selection for the selection of	Dati	
Local	and the second s	Caswell Lane			8/31/2006
Presumed Structure	Owner:	Based On Con	nment:	,	
Local		USACE - Pern	nits	ه هنده هنده این به در	a comment of the second contract of the secon
Owner Name:		Earliest Struct	ure Record:	Estimated Recons	struction/Repair Cost:
Plymouth	**************************************		1974		\$360,360.00
		electrical de la companya del companya del companya de la companya del companya d	inditation digram, esta an administrativa sub materiala. No juro estre cipitat digram proportion de de de del Administrativa esta de administrativa administrativa esta esta esta de de materiale de describir de describir	eer to die dat in heer van heer die die heelste die die heer die	nivytalministyttäätaidet esittä, siitäiden on, muun aja ja eta ja kailen einen muun on einen siitä oli kailen Kolonoriassa kaikaisia kailaisia yähenyn esi oli kailen on killin kailen einen oli kailen einen kailen einen k
Length: Top Ele	evation: FIRM Map Zone: V4	FIRM Map Elevat	14		11 1
	AVD 88	Feet NG	VD		II I
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet	the state of the s	- CONTRACTOR	
Secondary Type:	Secondary Material:	Secondary Heigh	t:		と信
7 .7,63.					
Structure Summary					
This structure is a	stone revetment. The side slopes	are very steep and	also vertical in some	e sections. The northern corner	is grouted. There
are many areas or	shifted and displaced armor stones	s. The Oversteepen	eu side slopes are a	a stability concern.	
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action	Moderate	**	Action	Consider for Next Project C	_
Description	Structure is sound but may exhib deterioration, section loss, cracki undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taker structure to provide full protection coastal storm and for extending I structure. Moderate wind or wav landform exists. Landform may no fully protect shoreline during a storm. Actions taken to provide a material for full protection and extending the structure of the structure of the structure of the structure.	ing, spalling, ture adequate with little to n to reinforce n from major ife of e damage to not be sufficient major coastal	Description	High Value Inshore Structur for Infrastructure Damage a Density Residential Dwellin impacted / 100 feet of s hore	nd/or Moderate gs (1-10 dwellings
Structure Image 057-012-000-046A 057-012-000-046A	-100-PHO1A.jpg	ructure Docume			uuritalud 20 maanaminimminimminimminimminimminimmini

Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-001A-100

Property Owner:		Location:	3840-48608 - 4-40 4-7086 UNIV. 2011-14 E1-786-676-41 E1-786-676-41	Date:		
Local Presumed Structure Owner: Local Owner Name:		Caswell Lane	8/31/2006			
		Based On Comment:				
		DEP – Ch 91 L	icense	379 St. 1 (C. 1437 A) St. 7 (C. 1438 A) St. 4 (M. 3) (C. 1437 A) St. 4 (M. 3) (M. 3) (M. 3) St. 4 (M. 3) (M. 3) St. 4 (M. 3) (M. 3) (M. 3) St. 4 (M. 3) (M.		
		Earliest Structure Record:		Estimated Reconstruction/Repair Cost:		
Plymouth		1983		\$116,424.00		
350	evation: FIRM Map Zone: V4 AVD 88	FIRM Map Elevation	14			
Primary Type: Revetment Secondary Type: Structure Summary	Primary Material: Stone Secondary Material:	Primary Height: Under 5 Feet Secondary Height				
This structure is a section.	small stone revetment fronting a pa	rking lot. The stone	e is weathered and	d the side slopes have slumped along most of the		
Condition Rating Level of Action Description	Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Struct to withstand major coastal storm underate damage. Actions taken structure to provide full protection coastal storm and for extending lif structure. Moderate wind or wave landform exists. Landform may not of ully protect shoreline during an storm. Actions taken to provide act material for full protection and extending the structure.	ng, spalling, ure adequate with little to to reinforce from major fe of e damage to bt be sufficient major coastal didition	Priority Rating Action Description	II Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage		
Structure Image 057-014A-000-001		ucture Documen	its:			

Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-007-100

Property Owner:	ng 4 qi ma Ignis (qila ilm () yangta asal dağlı döveli makis () ya qav pic limelgili agi (n	eje-jeoga-ezyphopdeszejek Lydásderkéfésék élésze élékfekfe-	Location	Philitis Hudbourseus – usida pisas Sa Baltisishikishiki Pahil Philipishik Philipishik	ymygestigander kondokkiskókkörk í Edmidendetk könsökdöl nómater hazuntur Andokkörkök	Date:	MANAGAMANA BERTARA KATANTAN K	
Local Presumed Structure Owner: Local Owner Name:		Town Wha	rf		8/31/2006			
		Based On (Comment:					
		The second secon	USACE – Permits					
		Farliest Str	ucture Record:	Estimated Reconstruc	tion/Repair Cost:			
Plymouth		· · · · · · · · · · · · · · · · · · ·	Edilicst Sti	1959		Estimated Reconstruct	\$175,824.00	
angth. Top E	Invotion:	EIDM Man 7	one: FIRM Map Ele	topologyapovecko pro indikoj a kralada vila di temetro dalo nominga manando omenia nastrada one a taleda over e da Nastrono	very relacionate del de cale escala del del prima del qual del cale del partir del propositionada del partir d La companya del propositionado del propositiona del propositionada del propositionada del propositionada del p	nengatan disebut kata <u>an disebut undan mendan</u> pendan pendan Pendah bahan disebut undan selat mendalan disebut disebu	Michigan Alberton (1985) (1985	
ength: Top E	levation:	FIRM Map Zo	A5	12	U San	- B		
	NAVD 88	1	1	NGVD	The same	A TOWN	N N	
Primary Type:		ary Material:	Prima ry Heigh	ıt•		一人作		
Revetment	Stone		10 to 15 Feet	A Company of the Comp				
Secondary Type:	Secon	dary Material:	Secondary He	iaht:	200			
Structure Summary	v :						1000	
This structure is a	stone revetme	nt beneath a wo	ooden quay wa ll supp	orted by timber p	oiles. There is no ac	cess to evaluate the s	tructure. Even	
visual assessment	is aimcuit.							
Condition	С			Priority	III ·			
Rating	Fair			Rating	Moderate F	•		
Level of Action	Moderate			Action	Consider for Listing	or Active Project Impre	ovement	
Description	Structure is sound but may exhibit 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 fully protect shoreline during a storm. Actions taken to provide actions and extending for full protection and extending the storm of the storm of the storm of the storm.		racking, spalling, Structure adequate torm with little to taken to reinforce ection from major ding life of wave damage to hay not be sufficient ing a major coastal	g, spalling, ure adequate vith little to to reinforce from major o damage to to be sufficient major coastal Idition				
Structure Imag 057-014A-000-007		pg	Structure Docur	ments: FEB 1971 JUN 1935	Proposed Harbor Proposed Fill in	057-014A-000-0		
			MADPW	FEB 1959	Proposed Town	057-014A-000-0		

Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-010A-100

Local Presumed Structure (Location:			Date:		
Presumed Structure (Local		Town Wharf		8/31/2006		
resumed structure	Owner:	Based On C	Comment:				
Local Owner Name:			USACE Permits				
					Estimated Reconstruction/Repair Cost: \$136,752.00		
		Earliest Stru	ucture Record: 1935	Esti			
Plymouth	Control in the control of the contro	no, y can y hayadakê casilê sasilê sasilê sasilê sasilê sasilê sasê hûze kazarê ne ê salê hêsalê	1933	n ng Princip (A gyamina ng gipyyamih na an nipig na hini i sami ni hida da d	#130/7 32:00		
ength: Top Ele	vation: FIRM Map Zon	e: FIRM Map Elev	vation:	is a superior and in the first discount in the first of the superior and t	geben melen met velant kan umti di we ser melala di mengheminka met in habi hata dili Addi kedi met e 🛒 e i se e e e e e e e e e e e e e e e e		
175		A5	12				
Feet Feet NA	VD 88	Feet N	NGVD				
Primary Type:	Primary Material:	Primary Height	t:				
Revetment	Stone	10 to 15 Feet					
Secondary Type:	Secondary Material:	Secondary Hei	ght:		A CANA		
, , , , , , , , , , , , , , , , , , , ,							
Structure Summary :		-					
	one revetment with a wave re	turn face concrete o	ap. The cap is wea	athered and shows so	me spalling. Certain sections		
	d somewhat. The stone sides m of the concrete cap.	opes have slumped			gap between the top of the stone		
Contantion	C		Priority	IV High Priority			
cutting.	Fair Moderate		Rating Action		ext Project Construction Listing		
sever of menon	Structure is sound but may ex	hibit minor			High Value Inshore Structures with Potential		
Description	Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.				ential Dwellings (1-10 dwellings		
700		Structure Docun		December 11 in	057-014A-000-010A-100-COE1A		
Structure Image	057-014A-000-010A-100-PHO1A.jpg US			Proposed Fill in	<u>'</u>		
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Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-014-100

resumed Structure cocal Owner Name: Plymouth ength: Top Ele	Owner:		Water St. Based On USACE – I Earliest St					8/31/2006
ocal Owner Name: Plymouth	Owner:		USACE -	Permits	to Pike The Transport of The	an and an analysis and		and the second s
Owner Name: Plymouth			USACE -	Permits	4. C V V 2 - 14		- Andrews	and the second second second
Plymouth			Earliest St					
lymouth				ructure Record:		F	stimated Reconstructi	ion/Renair Cost
angth: Ten Ele				193			Surrated Records det	\$33,772.00
	evation:	FIRM Map Zone:	FIRM Map Ele	evation:	Schleidightightighte ein der Schleidightig von der Schleidightightightightightightightightightight	ar Vall (til Ar Vir al-rascitassittassittäisettää ja alassida siidän tild n salvi ir alemii Piaessittiinistoitaitassa verajavateissia keese	yeat inindestrated enterpropagation of great initials, group-learning sour rates open must be 7 or 5 across to 600 million minimation medicinals, also promos terrorizacijanizacijanizacijanizacijanizacijanizacijani viduot inindestrumini Talentini promos	66. addobra domining om pagning group grant and or supply distribution of the control of the
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Feet Feet NA	AVD 88		Feet	NGVD		- 11		
imary Type:		ry Material:	Primary Heigl	AND DESCRIPTION OF THE PARTY OF				
evetment	Stone		10 to 15 Fee					
econdary Type:	Second	dary Material:	Secondary He	eight:		100		-
	1							
ructure Summary : nis structure is a st	The second state of the se	nt. The sideslopes s	how some weat	hering but are o	enerally in	good conditi	ion.	
Condition Rating Good Level of Action Description Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.		inor erosion e / landform om a major actions taken	nor erosion Description / landform n a major tions taken		Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)			
ructure Images 7-014A-000-014-1		g US	ucture Docur	JUN 1935	Propose		057-014A-000-01	
		IIIS	ACE	SEP 1952	Propose	ed Fill and	057-014A-000-01	4-100-COF1B

Structure Assessment Form

Town: Plymouth
Structure ID: 057-014A-000-021A-100

Caswell Lane (Saswell Lane (Sa	Property Owner:	untionen jungtier die jewe vielgelicht die der der verteilte zu von der vermitte die dastwarden dat der deutsche der dat der deutsche der dat der deutsche der deutsche der deutsche der deutsche deutsch	Location:	hirideryi hari Priberi Nebir diri Prisi Biryi Walarihani Mihandara, ilikusisi	iranin kritanin meterikan ketaru ditanan dan dibumun dali bada dibumina kritatan dan disebangan disebang	Date:
Property Ownership	Local		Caswell Lane	The Read of the State of the St		8/31/2006
Description Description Description Structure Images: Earliest Structure Record: Estimated Reconstruction/Repair Cost: \$59,459,00 \$\$59,459,00 \$\$59,459,00 \$\$59,459,00 \$\$59,459,00 \$\$59,459,00 \$\$59,459,00 \$\$\$59,459,00 \$\$\$59,459,00 \$\$\$\$Feet Feet NAVD 88 Feet NGVD Feet NGVD Frimary Type: Primary Material: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Type: Secondary Height: Secondary Type: Secondary Type: Secondary Height: Secondar	Presumed Structur	e Owner:	Based On Comr	ment:		
Primary Type: Primary Material: Primary Height: Stone Secondary Type: Secondary Material: Scondary Height: Stone Secondary Type: Secondary Material: Secondary Height: Structure Summary: This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are in good condition. The armor stone shows minor weathering. Condition B	_ocal	The second secon	Property Owne	rshi p	The second secon	**************************************
Primary Type: Primary Material: Primary Height: Stone Secondary Type: Secondary Material: Scondary Height: Stone Secondary Type: Secondary Material: Secondary Height: Structure Summary: This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are in good condition. The armor stone shows minor weathering. Condition B	Owner Name:		Farliest Structure Pecord:		Estimated De	construction/Penair Costs
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Stone Secondary Height: Stone Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary High Priority 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 shoreline) Secondary Type: Secondary Height: Sec	the state of the s		Edillest Structure		Estimated Re	the state of the s
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Stone Structure Summary: Structure Summary: Secondary Material: Secondary Height: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Heig	A STATE OF THE STA					
Primary Type: Revetment Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Second	J					
Revetment Stone 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Structure Summary : This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are n good condition. The armor stone shows minor weathering. Condition B)	West Street Street Street	
Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are no good condition. The armor stone shows minor weathering. Condition B Priority Rating Good Rating Level of Action Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure I landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	And the second of the second o		The second section of the second section	-		
This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are n good condition. The armor stone shows minor weathering. Condition B			,		- 理理	25
This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are n good condition. The armor stone shows minor weathering. Condition B Rating Good Rating High Priority Level of Action 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. Structure Images: Structure Documents:	secondary Type:	Secondary Material:	Secondary Height:			9
This structure is a stone revetment along the northwest corner of Plymouth Harbor Town boat ramp parking lot. The side slopes and crest are n good condition. The armor stone shows minor weathering. Condition B Rating Good Rating High Priority Level of Action 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. Structure Images: Structure Documents:		1	1			-
Condition B Rating Good Winor Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Action and extend life of structure. Structure Images: Structure Documents:			ct corner of Diamonth	2 Harbor Tours be	ant ramp parking lat. The si	do cloped and areat are
Rating Good Rating High Priority Level of Action Minor 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. Structure Images: Structure Documents:	n good condition.	The armor stone shows minor wea	thering.	Trialbor Town be	octramp parking loc. The sk	de siopes and crest are
Rating Good Rating Minor Consider for Next Project Construction Listing Action Consider for Next Project Construction Listing Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	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. High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline) High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline) Structure Images: Structure Documents:	Rating	Good			High Priority	
problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline) simpacted / 100 feet of shoreline)	Level of Action			Action	Consider for Next Project	t Construction Listing
	Description	problems, superficial in nature. Mit to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration.	inor erosion / landform m a major ctions taken	Description	for Infrastructure Damag Density Residential Dwe	je and/or Moderate Illings (1-10 dwellings
			ucture Document	s:		
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Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-021A-200

Property Owner:	an tar may a man a managan and managan (an an a	Location:	edinatrat 4 land och länd och verski den som solikte av et farthäldskalanda koloniste och la	Date:	999AMMANASINA NISTERIA
Local		Plymouth Hart	oor		8/31/2006
Presumed Structure	e Owner:	Based On Com	ment:		
Local	· ·	USACE – Perm	USACE – Permits		
Owner Name:		Farliect Structu	ire Decord:	Ectimated Reconstru	ction/Donnie Costs
Plymouth		Earliest Structure Record: 1974		Estimated Reconstru	\$4,536,180.00
		uudens de voer er som velkelijk de delaktien die de sommen van de velke de velke de volgen. De delaktien de so De sommen van de volgen van de de volgen van de laktie onde volgen voer besteel bevoek besteel volgen de volgen	illitetiliskik), viitinuutuvaa, 1944 viiki koks 1964 tilekkii ole 1960 tilekkii ole	etvi dinimizmaataatai egy najaan ja pinyo 1 (s. – yr) z zimmetet – kultur en noon on en et et alla pasta sastati metet ve kasala Kalen tärväätesta talanna kaja varaan jamaa en jamatu sanni 1 Koolektiina kalen en en en en en jamaasaa varaa sannia sannia.	
	evation: FIRM Map Zone:	FIRM Map Elevation	-		370
2900	V4		14		18
Feet Feet N	AVD 88	Feet NGV	D		
Primary Type:	Primary Material:	Primary Height:			ogeneral control
Breakwater	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height			
Structure Summary	:				
toe for the outer 17 of slumped crest el	75 yards of the structure. Overall texts and displaced armor stone.	he crest and sideslo	pes appear in goo	There is a scour apron along the ind d condition. However there are man	ny small regions
Condition	C Fair		Priority	IV	
Rating Level of Action	Moderate		Rating	High Priority Consider for Next Project Const	ruotion Lietina
Description	Structure is sound but may exhibi	t minor	Action Description	Consider for Next Project Const High Value Inshore Structures v	
	deterioration, section loss, crackir undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a storm. Actions taken to provide act material for full protection and extended.	ure adequate with little to to reinforce from major fe of damage to ot be sufficient major coastal didition		for Infrastructure Damage and/o Density Residential Dwellings (impacted / 100 feet of s horeline	r Moderate 1-10 dwellings
Structure Image		ucture Documen			The second and analysis are the second and the second as the second as the second as the second as the second
057-014A-000-021A		Ē J∪	N 1955 Plyn	nouth Harbor 057-014A-000-0	21A-200-TWN2A
057-014A-000-021A	v-200-PHO2B.jpg				

Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-021A-300

Property Owner:	FF 65556+4 4 that finds and the filter of the case regions habitations and the hindrical action of the case of the	Location	králi káladákásálá talár álár álálahlájás ajaminisszáránnar bjen fisszámajászi nelyi byszálatom -	n in eastlin ear-lighir eile an mòr-shiùid leithiúin e thin Liad St-Alland Aig an thair ead an Airi	Date:	MANUFACTION OF THE PARTY OF THE	
Local		Town Wha	arf	N FRANK / AVIANO		8/31/2006	
Presumed Structure	e Owner:	Based On	Comment:				
Local		USACE - I	USACE – Permits			nor and homeometry, was even	
Owner Name:		Farliest St	ructure Record:		Stimated Reconstruct	ion/Renair Cost	
Plymouth	and the second s	Lamest St	1974	Ĺ	Samuel Records de	\$36,036.00	
ength: Top E	levation: FIRM Map	Zone: FIRM Map Ele	nesse - two-resistation-prior-corrumnesse or state consustant and	nt för anktion till storrinke sellssporket kilde fraustide helde före som som kalle storrinke före som kalle s Som med som med som som som som kalle so	ghidginishno o yi nilambodhi, ammodigin olimi, ucamazonishi ina malikin olimi ucamazo bir Airi vadi a mar vacamilik 1995 ish Airiani Airiani 1977 udicumi kamaniladi sa ucamaki su umakeliri mushakeri mushak		
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Feet Feet N	IAVD 88	Feet	NGVD		7. 250	<u> </u>	
rimary Type:	Primary Material:	Primary Heigh	nt:		AND STORY		
evetment	Stone	5 to 10 Feet				£ 3	
econdary Type:	Secondary Material	Secondary He	eight:				
	Concrete					No.	
ructure Summary	: stone revetment topped wit	· · · · · · · · · · · · · · · · · · ·					
Condition B Condition Good evel of Action Description Structure observed to exhibit very					III Moderate Priority Consider for Active Project Improvement Listing		
-	problems, superficial in na to landform is present. St adequate to provide protec coastal storm with no dam to prevent / limit future det life of structure.	ructure / landform ction from a major age. Actions taken	Description	Infrastructu	uctures with potential re Damage and/or Lin Dwellings (<1 dwellir shoreline)	nited	
ructure Image	es: A-300-PHO3A.jpg	Structure Docur		posed Shore	057-014A-000-0	21A 200 DCB2A	
51 -01-7 /1-000-02 I	7. 500-1 1105A.jpg						
		USACE	OCT 1974 Pro	oosed Public]057-014A-000-02	21A-300-COE3A	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-021A-400

operty Owner:	annaga daktu uniad hatu et S. Delt et de vezi hitekin un den antiden tabilitation en (a. vela data) (1400 kg/kg vezi vezi un antiden antiden tabilitation en (a. vela data) (1400 kg/kg vezi vezi un antiden a	Location:	-Applikates iktyrtismu (m. miljoilistikkoise 1. nittitiistikoitoitiikiin 1979 (m.) – 199-jälli, vettimas	a. Laka B. B. Calabat (1995) (San San San San San San San San San San	Date:		
ocal	to desire a sign of the state of a sign of the sign of the state of the sign of the state of the sign of the state of the sign	Town Wharf		A ARTHUR AND A CONTRACT AND A CONTRA	8/31/2006		
esumed Structure	e Owner:	Based On Co	Based On Comment:				
ocal	·	USACE - Pe	TO THE PERSON NAMED IN COLUMN		you a substitute the second of		
					to the product of the second Contract		
wner Name: ymouth	/	Earliest Stru	Earliest Structure Record:		imated Reconstruction/Repair Cost: \$9,610.00		
ymouur	·	istorial galaxy generation and through 2014 of the 1995 of the 199		######################################	43/010.00		
ngth: Top El	levation: FIRM Map Zo	ne: FIRM Map Eleva	ation:	an Committee Com	lank consistent disental annual company in plants and an interest annual annual and added and the sequence of		
80		A5	12	E -			
Feet Feet N	IAVD 88	Feet N	GVD		A STATE OF		
rimary Type:	Primary Material:	Primary Height:	1	4			
evetment	Concrete	5 to 10 Feet					
econdary Type:	Secondary Material:	Secondary Heig	jht:		¥ # =		
tructure Summary	<i>i</i> :	•			A CHARLES THE CONTROL OF THE CONTROL		
nis structure is a	concrete boat ramp for the tov	vn. There is some cra	cking along the surfa	ce of the ramp. I	It is generally in good condition.		
Condition	В		Priority	III			
ating	Good		Rating		Moderate Priority		
evel of Action	Minor		Action	Consider for A Listing	Active Project Improvement		
Description	Structure observed to exhibit	very minor	inor erosion Description		tures with potential for		
	problems, superficial in naturate to landform is present. Stru				Damage and/or Limited		
	adequate to provide protection coastal storm with no damage	on from a major		Residential D ^e 100 feet of sh	wellings (<1 dwelling impacted /		
	to prevent / limit future deter			100 1001 01 011	(3.55)		
	life of structure.						
to the second paper of the second	il in na e 17 km il in de l'inter dies e la transferielle des des des des proposes de personalité de la décendant de l'est de la medie de l'est de	gert migen, vight mort seidt det kindspektet kelt til kindsteller kinds vil a feter besendt til ett kinds det t I till kindsfri af till til vinger hejdigt figt figtingen av vigsgett in sving i grands i bredt bill selgt frå	utt tradition del tradition de de de forfestelle translation de la lappine les descriptions de la lappine de l La la la tradition de la lappine de la l	r-unt 2004 in 2005 (en distinctivation) et aussi antimetral en maneria en en en en en el est de fels des les e Le College en el el College en en el en el en el en el en en el en el en el en en el en el en en en en en en	aan ta'uun seen segmin min maantaa lähtää kääsiste täänän etentäää kinkaassanneyn, ja 1910-1919, ja 1910-1919, Ja ja		
tructuro Imaa	061	Structure Docum	ente:				
tructure Imag 57-014A-000-021	A-400-PHO4A.jpg	MA DEQE		osed Shore	057-014A-000-021A-400-DCR4B		
	The state of the s	USACE		osed Public	057-014A-000-021A-400-COE4A		
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Structure Assessment Form

Town: Plymouth

Structure ID: 057-014A-000-021A-500

			Location:				Date:	
			Town Wharf					8/31/2006
e Owner:			Based On Co	mment:				
	20.000000000000000000000000000000000000	· · · · · · · · · · · ·	USACE - Permits					
			Earliest Struc	ture Record:		Est	timated Reconstruc	tion/Repair Cost:
	/			array and the second				\$27,489.00
levation:	FIRM Map Zo		FIRM Map Eleva		Magfaly speakable godinesa anno- Custago d'Est kirk misa matatra tit d'Est	പ്രാം എന്നു പ്രാം വിവാധ വ പ്രാം പരിച്ച് വെയ്യാം വിവാധ വിവാധ പ്രാം പരിച്ച് വിവാധ വ	der für vorse die geleine im der Vergeste der Vergeste deutsche geste gegene zu zu der der der versicht der d Der vergeste der der Vergeste de	idocelocolologo para 1994 - Propins III de la compania de la compania de la compania de la compania de la comp
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	Primary Material:		Primary Height:	to company		-	A STATE	
			ii.				H 232	
			Secondary Heig	nt:				17
	Concrete		1			3		
good con	dition. The side slope	es rem	ain entirely intact					
						Consider for Active Project Improvement		ovement
Structu						Listing		
to land adequa coasta to prev	form is present. Struate to provide protect I storm with no dama ent / limit future dete	oture ion froi ge. Ac	/ landform m a major ctions taken	Descrip	tion	Infrastructure Residential D	Damage and/or Li Dwellings (<1 dwell	mited
		unduksijisisisium kaika ka		maka milalahin 200 salah di dipirangsi sammanin salah sa				
es:	WIOTA :				Drop	and Chara	057 0144 000	21 A 500-DCR5A
A-500-P	rnusa.j p g	,						
		USA	/CE	OCT 1974	Prop	osed Public	057-014A-000-0	021A-500-COE
	evation: AVD 88 /: stone regood con B Good Minor Structu problet to land adequat coasta to prev life of s	Primary Material: Stone Secondary Material: Concrete T: Stone revetment with a wave good condition. The side slope B Good Minor Structure observed to exhib problems, superficial in natu to landform is present. Struadequate to provide protect coastal storm with no dama to prevent / limit future dete life of structure.	Primary Material: Stone Secondary Material: Concrete /: stone revetment with a wave return good condition. The side slopes rem B Good Minor Structure observed to exhibit very problems, superficial in nature. Minto landform is present. Structure adequate to provide protection from coastal storm with no damage. Act to prevent / limit future deterioration life of structure. ES: Structure. Structure MA	Revation: FIRM Map Zone: FIRM Map Elevation: FIRM Map Zone: FIRM Map Elevation: FIRM Map Elevation: FIRM Map Elevation: Firmary Material: Frimary Height: Secondary Material: Secondary Height: Secondary Height: Fonce to the side slopes remain entirely intact 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. Es: Structure Documents: Struc	Based On Comment: USACE – Permits Earliest Structure Record: 19: Revation: FIRM Map Zone: FIRM Map Elevation: A5 12 Feet NGVD Primary Material: Primary Height: Stone 10 to 15 Feet Secondary Material: Secondary Height: Concrete Secondary Material: Secondary Height: Concrete Fixm Map Elevation: A5 12 Feet NGVD Primary Height: Secondary Height: Concrete Fixm Map Elevation: A5 12 Feet NGVD Primary Height: Secondary Height: Concrete Fixm Map Elevation: A5 12 Feet NGVD Primary Height: Secondary Height: Concrete Fixm Map Elevation: A5 12 Feet NGVD Primary Height: Secondary Height: Concrete Fixm Map Elevation: Action The concrete cap. The	FIRM Map Zone: Secondary Material: Secondary Height: Concrete	Fowner: Based On Comment: USACE – Permits Earliest Structure Record: 1974 Evation: FIRM Map Zone: A5 Firm Map Elevation: 12 Feet NGVD Primary Material: Stone Secondary Height: Concrete Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Firm Map Elevation: 10 to 15 Feet Secondary Height: Concrete Friority Moderate Pri Action Consider for Listing Moderate Pri Action Consider for Listing Inshore Struct Inshore Struct Infrastructure Residential Concrete 100 feet of structure. Est Structure Documents: SEP 1970 Proposed Shore	Town Wharf Based On Comment: USACE - Permits

Structure Assessment Form

Town: Plymouth
Structure ID: 057-017-000-161-100

Property Owner:		Location:		The state of the s	Date:	
Local	The second secon	Water St.		76-50		8/31/2006
Presumed Structure	Owner:	Based On Co	omment:		·	
Local	A CONTRACTOR OF THE PARTY OF TH	DCR - Contr	act Drawings		The state of the s	
Owner Name:		Farliest Stru	cture Record:	Es	stimated Reconstruc	tion/Repair Cost:
Plymouth		Lariest Stra	1948	Ī		\$371,184.00
	an ang ang ang ang ang ang ang ang ang a	g N. S. Pry y Sous L. B. Solgy gas consistent of the Principle - Confusion - Million States of the Principle - Million Follows - Million Follows - Million Follows - Million Follows - Million - Mil	annell, socyalendra elektrico de la	namad demission (n) de del digit et les (N) (N) equipi princies, que se en construei hava frança del hasso des rens dide La construcción (n) de demission de la construcción de la construcción de la construcción de la construcción de	er Jones, a jostalskilstyr-lefn-arkeitelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilst model i slitte-sommistelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilstelskilst	ia conspandació
	evation: FIRM Map Zor	ne: FIRM Map Elev	ation:			
475 Foot N	AVD 88	Feet N				
Primary Type: Revetment	Primary Material: Stone	Primary Height 10 to 15 Feet				
	•		iht.			
Secondary Type:	Secondary Material:	Secondary Heig	, iii.			
Charlet in Comme		•		THE SELECTION	W Land	
Structure Summary This structure is a	stone revetment fronting a sma	all park. The bottom I	nalf of the armo	r stone is grouted. The	ne top and bottom s	ections are not
well connected, wit	th the top being slumped in sec	tions.				
	_					
Condition	C Fair		Priority	III Moderate Pr	iority	
Rating Level of Action	Moderate		Rating Action		Active Project Impr	ovement
Description	Structure is sound but may ex	khibit minor	Action	Listing		
Bescription	deterioration, section loss, craundermining, and/or scour. Sto withstand major coastal stomoderate damage. Actions ta structure to provide full protectoastal storm and for extendistructure. Moderate wind or vlandform exists. Landform material for full protection and material for full protection and	tructure adequate orm with little to alken to reinforce ction from major ng life of wave damage to ay not be sufficient ag a major coastal de addition	Descriptio	Infrastructur	ctures with potential e Damage and/or Li Dwellings (<1 dwelli horeline)	mited
Structure Imag 057-017-000-161-		Structure Docum	ents: JUL 1948	Proposed Bank	057-017-000-16	61-100-DCR1A
057 047 000 404 4	100-PHO1B.jpg	MA DPW	JUL 1948	Proposed Bank	057-017-000-16	61-100-TWN1A
057-017-000-161-		DED OU 04	CED 4005	PLAN	057-017-000-16	4 400 11044
J057-017-000-161-1		DEP CH.91	SEP 1935	PLAN	1037-017-000-10	1-100-LIC1A

Structure Assessment Form

Town: Plymouth Structure ID: 057-017-000-163-100

			Location	deplatents (to cod), in fire you digitiza in plain diana mate na chi diph nazwyn meinin (di inst) fir an dowdan phinas I	elijällushussteelilijäleididesti veites kateurineten läunikilaasta siitää	Date:	
Local			Water St.	ecelialitica i monte e alciumante los securios e e e e e e e e e e e e e e e e e e e	X 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1		8/31/2006
resumed Struct	ure Owner:		Based On (Comment:		,	
ocal		ARROLD NO JONES TO THE CO.	Property O	wnership	and a second contraction of		Paragraph of the second of the
wner Name:			Earliest Str	ucture Record:	Е	stimated Reconstruc	tion/Repair Cost:
lymouth				0	Γ		\$583,110.00
the second second	Elevation:	FIRM Map Zone	the second second	e com-a contact different action and a contact of different accordance to the least accordance to the contact of the contact o	en de la companya de La companya de la co	it was not been die der der der der der der der der der de	disephological production of the second seco
465		A		13			
Feet Fee	NAVD 88		Feet f	NGVD			
imary Type:		mary Material:	Primary Heigh	Committee of the Art			Trace
ulkhead/ Seaw	all Sto	ne	10 to 15 Feet				
econdary Type	Seco	ondary Material:	Secondary He	ight:			
			1				
evel of Actio Description	Structure is deterioration undermining to withstand moderate costructure to coastal sto	s sound but may exh in, section loss, crac g, and/or scour. Stru d major coastal storr lamage. Actions take provide full protection rm and for extending Moderate and form may	king, spalling, cture adequate n with little to en to reinforce on from major life of ve damage to not be sufficient	Action Description	Infrastructur	actures with potential te Damage and/or Lir Dwellings (<1 dwelli shoreline)	nited
	landform e to fully prot storm. Acti	ect shoreline during ens taken to provide full protection and e	addition				
ructure Ima	landform e to fully prot storm. Acti material for	ect shoreline during ons taken to provide full protection and e	addition	nents:			
tructure Ima 57-017-000-16	landform e to fully prot storm. Acti material for	ect shoreline during ons taken to provide full protection and e	addition xtended life.	SEP 1935 PLA	N posed Fill in	057-017-000-16 057-017-000-16	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-020-000-042-100

Property Owner:		Location:	kirliki, sak inkiliki tet ne mistelipuntak situaliput da sesenahanyak sioril, junjitahlisi kipa	bate:	Date:	
ocal		COLUMN CO	Water St.	Water St.		
resumed Structure	e Owner:		Based On Comr	nent:		
.ocal	<u> </u>	The state of the s	USACE - Permi	ts	The second secon	THE TAX TO A STATE OF THE TAX TO A STATE OF THE STATE OF
wner Name:		,	Earliest Structu	re Record:	Estimated Reconstru	ction/Repair Cost:
Plymouth	nouth			1935		\$189,750.00
	levation:	FIRM Map Zone:	FIRM Map Elevatio		governing var den der gelege de general (v. v. v. v. de by ought to de de gelege de la companyation de grande de la companyation de la companyatio	
250		A5	1			
	IAVD 88		Feet NGVI)		
rimary Type:	A CHANGE BOOK	ry Material:	Primary Height:			
Bulkhead/ Seawall	Stone		5 to 10 Feet		The state of the s	
econdary Type:	Second	dary Material:	Secondary Height:	_		
	1				17 - 17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Condition Rating Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structure to withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may not fully protect shoreline during a right storm. Actions taken to provide admaterial for full protection and extended.		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	Moderate Priority Consider for Active Project Implicating Inshore Structures with potentia Infrastructure Damage and/or Li Residential Dwellings (<1 dwell 100 feet of shoreline)	al for imited	
tructure Imag 57-020-000-042-1			icture Document		oosed Fill in 057-020-000-04	42-100-COE1A

Structure Assessment Form

Town: Plymouth

Structure ID: 057-020-000-182-100

Property Owner:	thair de dhiù aith tachna a bhua, bha agtre pag righ ag cro	dis wheelfoldelikelikelikelikelikelikelikelikelikelik	Location	and distribute over. Take it the advantified commission (the place of the object of the distribute of the place of the object of	Tallways hand all for the first of the Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-	Date:
Local			State Pier			8/31/2006
Presumed Structur	re Owner:		Based On	Comment:		
Local	The state of the s		USACE -	Permits	AND THE PARTY OF T	
Owner Name:] Earliest St	michino Docordi		Estimated Basestweties /Baseic Costs
Plymouth			Earliest St	ructure Record: 195	4	Estimated Reconstruction/Repair Cost: \$333,960.00
	in the second se	aviden dadasi – Gaudis vasine avv. 7 t därsalda veidendels sin didalige utvalnygs yngs keje – kyry vit Killinds – leide in didaliks valiske delse dest bereikste een komme. Lynn sommiy usystule vasse een de		entales aglidales construentes para para proprio de la companya de la companya de la companya de la companya d Companya de la companya de la compa	kir ikas retu saridasidak polek sari sasidandadidikulai deurusudasar yurususus su usulus sari Katalar san silbalikasian jasar sasida kilikasiasiasan katalari pelakerina sari sarida katalari sarida katalar	
	levation:	FIRM Map Zone:				
220		V4		14		100 2
Feet Feet	NAVD 88		Feet	NGVD		
Primary Type:		imary Material:	Primary Heigl	nt:	*	Towns and the same of the same
B ulkhead/ Seawal	i jo	oncrete	5 to 10 Feet			The base
Secondary Type:	Se	condary Material:	Secondary He	eight:		
Structure Summar	The second secon					g the base. The wall shows severe
Condition Rating Level of Action Description	Structure deteriorate undermin strong risi failure du should be repairs/re taken to reapacity the Landform Landform during ma recreate landform tereate landfor	exhibits advanced leverion, section loss, cracking, and/or scour. Struck of significant damage ring a major coastal storm and the construction can be inite econstruct structure to or resist a major coastal eroded, stability threat not adequate to providing coastal storm. Action and form to adequate lires from a major coastal storm.	ing, spalling, cture has and possible orm. Structure tiated. Actions regain full a storm. ened. le protection ons taken to mits for full	Priority Rating Action Descripti	Listing Inshore S Infrastruc Residenti	e Priority for Active Project Improvement Structures with potential for sture Damage and/or Limited ial Dwellings (<1 dwelling impacted / of shoreline)
	o opiči su su kor valetore ir kanada u Mikinenno i redeniškom d.S. kume.		ructure Docur		Concrete Retainir	ng 057-020-000-182-100-DCR1A
			ADPW	Nov 1945	1	
Structure Imag 		MA	A DPW A DPW ADPW	MAY 1956 JUL 1954	Proposed Shore Proposed Seawal	057-020-000-182-100-TWN1A

Structure Assessment Form

Town: Plymouth

Structure ID: 057-020-000-182-200

Property Owner:		Location:	anntrettavooliisisten (2 vaste riitatauluse ja teen valvarailusea (in Lidensie voo aliitataisis – eet et tii	Date	SALESTON CONTROL OF THE SALESTON OF THE SALEST
Local		State Pier	and a continuous of the land of the land		8/31/2006
Presumed Structure	e Owner:	Based On Com	ment:	,	
Local		USACE - Perm	nits		A 10 10 10 10 10 10 10 10 10 10 10 10 10
Owner Name:		Earliest Structu	ire Record:	Estimated Reconst	ruction/Repair Cost:
Plymouth			1954		\$1,173,572.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevati		160000 Можно до Особоловом Анасторија, на цене на до Сенера До Анасторија. Можно до Особоловом до Сенера Сенер По 16000000000000000000000000000000000000	
1954	V4		14		* *
Feet Feet N	IAVD 88	Feet NGV	'D		
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Height			
Secondary Type.	Secondary Platerial.	Secondary Height	•		Y
	. 1	1			Sal and
Structure Summary	: stone revetment fronting a park. S	ome armer stone al	and the great has	Ninovana Minovanalina af the co	
This su acture is a	stone revenuent fronting a park. 3	ome annor stone an	ong the crest has s	sumped. Millor cracking of the ar	mor stone evident.
Condition	С		Priority	III	
Rating	Fair		Rating	Moderate Priority	
Level of Action	Moderate		Action	Consider for Active Project Im Listing	provement
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structu to withstand major coastal storm w 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 m storm. Actions taken to provide add material for full protection and external storms.		Description	Inshore Structures with potent Infrastructure Damage and/or Residential Dwellings (<1 dw 100 feet of shoreline)	Limited
Structure Image 057-020-000-182-2 057-020-000-182-2	00-PHO2A.jpg	ucture Documen	ren'i sprendire a distant dist		

Structure Assessment Form

Town: Plymouth

Structure ID: 057-020-000-182-300

Property Owner:	Common des constant un eller och mit ben der der der det det det det det de d La constant de constant de	Location:	lifelidekselministrikkitikerifilikjuplis-liktrirenne _v estrock-thigterilikis _t en	Date:
Local		State Pier	A STATE OF THE STA	8/31/200
Presumed Structure	e Owner:	Based On Com	ment:	
Local		USACE - Perm	its	
Owner Name:		' Earliest Structu	ire Record:	Estimated Reconstruction/Repair Cost:
Plymouth		1954		\$461,050.00
	er e	ger mindelighet get freigigt feigeligt des getreigtschaft freigigt des der	kanalah juga mek hidi kalan kepangan kehidi kalah kelah mengalah dalah secah bilah sasi kelah sebagai kelah sa Meneral kengalan pelangan kelah sebagai kelah sebagai pelangan pelangan kelah sebagai kelah sebagai kelah seba	
ength: Top Elevation: FIRM Map Zone: 590 V4		FIRM Map Elevation	on: 14	39
	AVD 88	Feet NGV		
Primary Type: Revetment	Primary Material: Stone	Primary Height: 10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height		
	The state of the s	Total y Height		
Structure Summary	/:			
Rating Level of Action Description Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structute to withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a mistorm. Actions taken to provide admaterial for full protection and extending the structure.		ng, spalling, ure adequate with little to to reinforce from major fe of de damage to out be sufficient major coastal didition	Action Description	Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 057-020-000-182-3		ucture Documen	mende annabet service de la constante de la co	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-020-000-182-400

Property Owner:	er volument og det skale og det skale for de	Location:	alumayahna salugasindasishirika ishani qili qorani ishindasini senkuazi dansoo isobusi voon kundonab eela v	Date:
Local	100 Marie 100 Ma	Pilgrim Memorial Sta	te Park	8/31/2006
Presumed Structure	e Owner:	Based On Comment:		•
Local	The same was a part of the same of the sam	USACE - Permits	estructura e consecuente constitución de la consecuencia della d	
Owner Name:		Earliest Structure Re	cord:	Estimated Reconstruction/Repair Cost:
Plymouth			1954	\$742,368.00
950 Feet Feet N	levation: FIRM Map Zone: V4 IAVD 88	FIRM Map Elevation: 14 Feet NGVD	SSS that for middle the middle that the second more about the middle that the second sec	
Primary Type: Revetment	Primary Material: Stone	Primary Height: 10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		
Structure Summary	/:	g		
without the second seco	stone revetment fronting a park. T	he stone is weathered and	slumped. A backing of g	granite stone has become exposed.
Condition	С	Prio	ority III	
Rating	Fair Moderate	Rati		·
Level of Action Description	Structure is sound but may exhibi	Action transfer of the second	on Consider Listing	for Active Project Improvement
Description Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not fully protect shoreline during a mistorm. Actions taken to provide admaterial for full protection and extending the structure.		ure adequate with little to to reinforce from major fe of damage to to be sufficient major coastal ddition	Infrastruc Residenti	Structures with potential for ture Damage and/or Limited ial Dwellings (<1 dwelling impacted / of shoreline)
Structure Image 057-020-000-182-4		ucture Documents:		

Structure Assessment Form

Town: Plymouth

Structure ID: 057-023-000-026-100

FIRM Map Zone:	Stephens Field Based On Con DEP - Ch 91 Earliest Struct FIRM Map Elevat	nment: License cure Record: 1998	Estimated Reconstruction/Repa	air Cost:
FIRM Map Zone:	DEP – Ch 91 Earliest Struct	License ture Record: 1998	the state of the s	
FIRM Map Zone:	DEP – Ch 91 Earliest Struct	License ture Record: 1998	the state of the s	
V4		1998	the state of the s	
V4		1998	the state of the s	
V4	FIRM Map Elevat	ettionate hikkimisteria kasi tapaini oli paini kalikii kasi varian vaa vahidalida tuuta kalikii kasi di hiridalidi Kalikiinate valmatiin valmatiin valmatti Adan Ada ka variataman kataman mattamatiin takeettii valmatii İon:	Takink Siraki Mindelon kerin Siraki Mondelon Siraki Mondelon Makkan Makan Maka	
7		14		
/	Feet NG	VD		
Primary Material:	Primary Height:			
Stone	Under 5 Feet			
Secondary Material:	Secondary Heigh	t:		
		1		
			5	
one revetment fronting tenr	nis courts. The cres	st is failed in one are	ea and has slumped down.	
		Priority	III	
		*	Moderate Priority	
ate		Action	Consider for Active Project Improvement	
deterioration, section loss, cracki undermining, and/or scour. Struc to withstand major coastal storm moderate damage. Actions taken structure to provide full protectior coastal storm and for extending li structure. Moderate wind or wave		Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impac 100 feet of shoreline)	ited /
Actions taken to provide a	ddition	-		
Str	ucture Docume	nts:		(ivintilipe) (shiriga vekilarania
			NS 057-023-000-026-100-LIC	C1A
	ate Ire is sound but may exhibited in the section loss, cracking in the section loss, cracking in the section of the section	ate are is sound but may exhibit minor pration, section loss, cracking, spalling, nining, and/or scour. Structure adequate stand major coastal storm with little to ate damage. Actions taken to reinforce are to provide full protection from major a storm and for extending life of a little with the standard wind or wave damage to a mexists. Landform may not be sufficient protect shoreline during a major coastal actions taken to provide addition all for full protection and extended life. Structure Docume!	ate Tre is sound but may exhibit minor varion, section loss, cracking, spalling, nining, and/or scour. Structure adequate stand major coastal storm with little to ate damage. Actions taken to reinforce are to provide full protection from major a storm and for extending life of are. Moderate wind or wave damage to are exists. Landform may not be sufficient protect shoreline during a major coastal Actions taken to provide addition all for full protection and extended life. Structure Documents:	Rating Action Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impact 100 feet of shoreline) Structure Documents:

Structure Assessment Form

Town: Plymouth

Structure ID: 057-023-000-026-200

Property Owner:	nomidalarik harikikakin-muljaran pampam A 1654b), dan umana cammantudia Perpuntudgalahdanya dan Ulajura	Location:	бекілі Аніян дін Алайд А. Ангендій Ангендій Ангендій на бекілі шығышылық қасалырында алаы	tere un museran error error error un error un error un error error error error un error un error un error un e Da	ate:
Local		Stephens Fi	eld		8/31/2006
Presumed Structure	e Owner:	Based On C	omment:	•	
Local	ing and the second seco	DEP - Ch 9	1 License		The same of the sa
Owner Name:		Farliest Stru	cture Record:	Estimated Reco	nstruction/Repair Cost:
Plymouth	,	Lawrest out	1998	Estimated Reco	\$335,782.00
A TOTAL TOTA	en e	distribution and hope the extension accordance to the extension accordance to the extension and the extension accordance to the extension acco	er for the state of the second state of the	des caractivandos atravis ao mensio y en estidos a, manun logunas de debidades inperes dels debidades en estam a de des cambras este de caractiva de la cambra del la cambra del la cambra del la cambra de la cambra de la cambra de la cambra de la cambra del la cambra de la cambra d	ell die del havinkele de
Length: Top E	levation: FIRM Map Zone		ation:		
	IAVD 88	Feet N			
				THE PARTY OF THE P	
Primary Type: Revetment	Primary Material: Stone	Primary Height Under 5 Feet		2 7 47	
•					VAN MAKE
Secondary Type:	Secondary Material:	Secondary Heig	ght:		A CONTRACTOR OF THE PARTY OF TH
Structure Summary	v : ne of strewn rubble and stone lyin				
Rating Level of Action Description	Critical Immediate Conditions of structure/landform emergency stabilization as failur potential loss of property and/or eroded, loss of integrity. Structur critical levels of deterioration, secracking, spalling, undermining, Structure provides little or no pre major coastal storm. Actions tal reconstruct structure to regain for Landform stability is severely cor rate of erosion/material loss ma and landform does not provide a protection from a major coastal taken to recreate landform to ad for full protection from a major of	re may result in life. Landform re exhibits ection loss, and/or scour. otection from a ken to totally ull capacity. ompromised, by be increasing, adequate storm. Actions lequate limits	Rating Action Description	Low Priority Future Project Considerati Inshore Structures Presen potential for Significant Infi	t with Limited
WITE TO THE PART OF THE PART O	no en la como en consula des las sensidades a sensidades de la composição de la composição de la constituidad A como se la la fina de la como en como especia de la como en como en conferio de la como en como en conferio de	t kidelinensi mad 1944 ushtidadekan simuma simuma simume kalenda kalenda simume simume kalenda simume simume s Simume simume simum	alakkililiksessä (1706 ellektuuria) on yhermissä vastekililiksessä (1706 tillet – 224 hilliosta vastekililikse Enertiksililiksessä (1706 ellektuuria) on että (1706 tillet vastekililiksessä (1706 tillet vastekililiksessä (All all the second seco	en men mar taut 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841. 1841 Marchael Parl Pantha (Artinia disclarada de Artinia de Artinia de Artinia (Artinia de Artinia de Artinia de Ar
Structure Image 057-023-000-026-2		ructure Docume	ents:		
057-023-000-026-2					
U <i>31</i> -UZ3-UUU-UZ 0 -Z	оо-глогь.јрд				

Structure Assessment Form

Town: Plymouth

Structure ID: 057-037A-000-156-100

Property Owner:	ajan-hadan Sinkhili perkalahkhili sa jan anti sayun ah hasi ya tenghulah khi ngjannah khilipun tekhili sa in infaatau	Location:	Disk aan de van de vergelijk foor voor project in de de de voorde de part Konstabilitein de volgeviel en de dek	ani kanakan kanakan kenahinan salama menjadan hinegal mendalah kanakan dan dibantah di berakan kenahinan di berakan di berakan kenahinan di berakan di ber	Date:
Local		Plymouth Be	ach	The state of the s	9/1/2006
Presumed Structure	e Owner:	Based On Co	mment:		
Local		Property Ow	nership		
Owner Name:		Earliest Struc	ture Record:	Estimate	ed Reconstruction/Repair Cost:
Plymouth	, , , , , , , , , , , , , , , , , , , ,		0		\$4,780,512.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Eleva		terhétekatén vedéndőst rusakosádásusádallamusonahály és tölkötő ternelőbek ásádátákát vi Hetrosádásádásalamaton sessent ellentősén alatonábatósátárató ellentősén elenterhetek ellenterhetek	
Length: Top E	V2		19		
Feet Feet N	IAVD 88	Feet NO	GVD		
Primary Type:	Primary Material:	Primary Height:		The state of the state of	i ce
Revetment	Stone	Under 5 Feet	2007-1-0-1-0		
Secondary Type:	Secondary Material:	Secondary Heig	ht:		
Structure Summary	/: stone dike that lies along the east				and the second s
Condition Rating Poor Level of Action Description Structure exhibits advanced levels deterioration, section loss, cracking undermining, and/or scour. Structure during a major coastal store should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal		cing, spalling, cture has and possible orm. Structure tiated. Actions regain full	Priority Rating Action Description	Listing Inshore Structures Infrastructure Dama	age and/or Limited gs (<1 dwelling impacted /
Structure Image	Landform not adequate to providuring major coastal storm. Action recreate landform to adequate lipprotection from a major coastal storm.	ons taken to mits for full	romentalised and demonstrates stated and an area		
057-037A-000-156					
057-037A-000-156	-100-PHO1B.jpg				

Structure Assessment Form

Town: Plymouth

Structure ID: 057-037A-000-339-100

Property Owner:	And the second s	Location:	mengennen om en storet i statister om til statiste hall, med til der hår sig til statiste hal til statiste hal	Date	:
Local	A STATE OF THE STA	Plymouth Bea	ach		9/1/2006
Presumed Structure	e Owner:	Based On Cor	mment:		
Local		DPW - Drawi	ngs	a monantesta com es as at at a com a some services. Ence	the state of the s
		1			
Owner Name: Plymouth	7	Earliest Struc	ture Record:	Estimated Reconsi	truction/Repair Cost: \$401,500.00
· iyinoddi	The state of the s		TO 10	Sir-elmodepidddddd Aghlifeligi regilad i igil, igynaw, b, amai i ray wili'n eld ann harfa bareldd gabbhilddd gollad Arberran on i i gal	\$ 101,300.00
The second secon	evation: FIRM Map Zone	The second secon	tion:		
275	V	2	19	ATTENDED TO THE RESERVE OF THE RESER	
Feet Feet N	AVD 88	Feet NG	VD.		600
Primary Type:	Primary Material:	Primary Height:	in the same of the	- Manager	
Groin/ Jetty	Concrete	Under 5 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	nt:		
				The same of	
Structure Summary	' ;				
This structure is th structure has comp	e remains of an adjustable groin. Dietely failed and is non-functional	All that remains are	the concrete posts.	. All evidence of the insert panel	s is removed. The
Condition	F		Priority	I	
Rating	Critical		Rating	None	
Level of Action	Immediate		Action	Long Term Planning Conside	erations
Description	Conditions of structure/landform emergency stabilization as failu potential loss of property and/or eroded, loss of integrity. Structuc ritical levels of deterioration, secracking, spalling, undermining, Structure provides little or no promajor coastal storm. Actions tal reconstruct structure to regain fundform stability is severely corate of erosion/material loss maind landform does not provide a protection from a major coastal taken to recreate landform to act for full protection from a major of	re may result in life. Landform re exhibits ection loss, and/or scour. otection from a ken to totally ull capacity. ompromised, y be increasing, adequate storm. Actions dequate limits	Description	No Inshore Structures or Res Units Present	idential Dwelling
Structure Image 057-037A-000-339		tructure Docume OE /A		nouth Harbor MA, 057-037A-00	00-339-100-TWN1A

Structure Assessment Form

Town: Plymouth

Structure ID: 057-039-000-010B-100

Key: community-map-block-parcel-structure

Property Owner:		Location			Date:	
Local		Eel River		The State of the S		9/1/2006
Presumed Structure	e Owner:	Based On	Comment:		,	
Local		Property 0			and the second of the second second	The state of the s
Owner Name:			ructure Record:	Ea	timated Possestruct	ion/Penair Cost
Plymouth	/	Earliest St		<u> </u>	timated Reconstruct	\$382,536.00
	er og skallen er en br>Framer er en en en 1741 var in er har Oblikkom (værer av en) i a værer en	refue kalaiser – un kanander Mit data Middelf voor 14 kaloh middelf dataksi on 4 in 1 de insurtoo makka kalohan en Aran (in an Aran Middelf mal in Aran 1 met in sakilika ataun 1 in an Aran (in an Aran 1 in an	er dal / terakan kalakan dalam dalam dalam dalam dalam dalam seria dalam seria kalam dalam dalam dalam dalam d Selektrik dalam		estina karina karin Karina karina karin	T302/30010
	levation: FIRM Map Zor		*	BHS		Marie Control
900		V2	19			
Feet Feet N	IAVD 88	Feet	NGVD			
Primary Type:	Primary Material:	Primary Heigh	The second second			
Bulkhead/ Seawall	Concrete	Under 5 Feet				100
Secondary Type:	Secondary Material:	Secondary He	eight:			
Structure Summary			7 - T		an colonia de Arras de Francisco	
	concrete seawall fronting a dirt them end. Each groin is appro			cracking and spalling.	The toe of the wall is	becoming
Saposou de trie 30t	alon cha. Lach groin is appro	, a.matciy 75 to 100	rections.			
Condition	С		Priority	II		
Rating	Fair		Rating	Low Priority		
Level of Action	Moderate		Action	Future Project	ct Consideration	
Description	Structure is sound but may ex deterioration, section loss, craundermining, and/or scour. St to withstand major coastal stor moderate damage. Actions ta structure to provide full protect coastal storm and for extendir structure. Moderate wind or vlandform exists. Landform mato fully protect shoreline durin storm. Actions taken to provide material for full protection and	acking, spalling, tructure adequate form with little to ken to reinforce stion from major ing life of wave damage to any not be sufficient g a major coastal de addition	Descript	LUIL	etures Present with L Significant Infrastruct	
Structure Image 057-039-000-010B		Structure Docur	ments:	Proposed Shore	057-039-000-010	B-100-DCR1A
057-039-000-010B	-100-PHO1B.jpg	MA DPW	SEP 1940	Proposed Shore	057-039-000-010	
	•	MA DPW	JUL 1946	Proposed Repairs to	057-039-000-010	
		MA DPW	OCT 1954	Proposed Shore	057-039-000-010	
		MA DPW	SEP 1956	Proposed Shore	057-039-000-010	
		MA DPW	SEP 1957	Proposed Shore	057-039-000-010	
		MA DDW	MAV 1050	Proposed Shore	057 030 000 010	
		MA DPW	MAR 1968	Proposed Shore	057-039-000-010	B-100-DCR1H
		MA DPW	MAY 1952	Proposed Shore	057-039-000-010	
k reg blownierii. Pinnierii intees, somaa biitti ensahtingstelipherni iji oo soo		MA DPW	APR 1965	Proposed Shore	057-039-000-010	
		IVIA COL VV	MI I 1900	Li inhosed suote	1001-009-000-010	D-100-DCK11

MAY 1952

Proposed Shore

MA DPW

057-039-000-010B-100-TWN1A

Structure Assessment Form

Town: Plymouth

Structure ID: 057-039-000-010B-100

MA DPW	SEP 1957	Proposed Shore	057-039-000-010B-100-TWN1B
MA DPW	APR 1965	Proposed Shore	057-039-000-010B-100-TWN1C
MA DPW	MAR 1968	Proposed Shore	057-039-000-010B-100-TWN1D
COE	DEC 1956	Plymouth Harbor,	057-039-000-010B-100-TWN1E
PLY DPW	OCT 1978	Contract 2851,	057-039-000-010B-100-TWN1F

Structure Assessment Form

Town: Plymouth

Structure ID: 057-039-000-010B-200

	Location:	terformati (n _{am} mallustistista (matiema-legati-legatifund) vision (kitel-matieste) vision (si	Pate:
en de la companya de	Eel River	the train of the second	9/1/2006
Owner:	Based On Com	ment:	1
etietija jek - Juleo provincija agranijas iku u denie iku u provincija iz ili z ili za ili z ili z ili z ili z			A STATE OF THE STA
	Farliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
7	Larilest Structu	0	\$3,054,216.00
en e	iki kanang dinang dinang dinang dinang kanang kanang kanang dinang dinang dinang dinang dinang dinang dinang di Banahara Carang dinang	n en S. Lietz, in entlate et J. His est ha jarden et statet die in een druste sinne Lietz (sinhere His Int J. Kenin Statet die Statet die Nasie in daar Historiaanske statet van de samen Stade verklade verber sin	
		_	
		•	
,	,		
Secondary Fraction	Coordary Height.		
D Poor		Priority Rating	II Low Priority
Major		Action	Future Project Consideration
Description Structure exhibits advanced levels deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storn should be monitored until repairs/reconstruction can be initia taken to reconstruct structure to recapacity to resist a major coastal s Landform reconded, stability threater Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limit		Description	Inshore Structures Present with Limited potential for Significant Infrastructure Damage
	ucture Document	ts:	
	Poor Major Structure exhibits advanced levels deterioration, section loss, crackir undermining, and/or scour. Struc strong risk of significant damage a failure during a major coastal stor should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal Landform eroded, stability threate Landform not adequate to provide during major coastal storm. Action recreate landform to adequate lim protection from a major coastal st	Primary Material: Stone Secondary Material: Stone Secondary Material: Stone Secondary Height: Secondary Height: Stone Secondary Height: Secondar	Based On Comment: Property Ownership

Structure Assessment Form

Town: Plymouth

Structure ID: 057-041-000-029-100

Key: community-map-block-parcel-structure

Property Owner:	mani tind anthe translation the real translation	РОВЕЙ-литеский и чений и 42 0110110000000000000000000000000000000	Location	kracinarukularik 20-16ki melulukula arukulusak biluncari. P	atilitationika atuuron lättätienn 1944 (1945–466) 2 no 1914, viin 1951 mille St. Satisfattiin eleksiva Satismot	Date:
Local			Warren C	ove		9/1/2006
Presumed Structure	e Owner	:	Based On	Comment:		1
Local			DPW - Dr			The Alexanders and the
				o mark		
Owner Name: Plymouth		/	Earliest St	ructure Record: 195	شننتو است	timated Reconstruction/Repair Cost: \$2,162,160.00
		yPPmi-Shipit that packet months also what is a should give the growth of photograph of decidence.	MAN 'S 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		inide were well with the contribution of the c	\$Z,10Z,10U.UU
Length: Top E	levation:	FIRM Map Zor	ne: FIRM Map Ele	evation:	water in the act of the film was associated all pulsary received a production deliced from cost accounts all present plus received and the cost of the	
3600			V2	19		
Feet Feet N	NAVD 88		Feet	NGVD		
Primary Type:		Primary Material:	Primary Heig	ht:		
Revetment		Stone	5 to 10 Feet			
Secondary Type:		Secondary Material:	Secondary He	eight:		
Bulkhead/ Seawall		Concrete			6 12 12 VA	
Structure Summary	y :					4000 medical section
Condition Rating Level of Action Description	deterioundem to with modera structu coasta structu landfor to fully storm.	ate Ire is sound but may extendion, section loss, cranining, and/or scour. Stand major coastal stote damage. Actions talted to provide full protect storm and for extendire. Moderate wind or with mexists. Landform man protect shoreline during Actions taken to providal for full protection and	acking, spalling, ructure adequate rm with little to ken to reinforce tion from major ng life of vave damage to y not be sufficient g a major coastal e addition	Priority Rating Action Descripti	on High Value In: for Infrastructi Density Resid	Next Project Construction Listing shore Structures with Potential ure Damage and/or Moderate ential Dwellings (1-10 dwellings 0 feet of shoreline)
Structure Image 157-041-000-029-1			Structure Docur	ments:	Proposed Repairs to	057-041-000-029-100-DCR1A
57-041-000-029-1			MA DPW	OCT 1932	Proposed Rip Rap	057-041-000-029-100-DCR1B
			MA DPW	MAR 1940	Proposed Shore	057-041-000-029-100-DCR1C
		<u>!</u>	MA DPW	SEP 1940	Proposed Shore	057-041-000-029-100-DCR1D
		<u>:</u>	MA DPW	OCT 1956	Proposed Shore	057-041-000-029-100-DCR1E
		<u>.</u>	MA DPW	FEB 1960	Proposed Shore	057-041-000-029-100-DCR1E
		<u>:</u>	MA DDW	MAD 1064	Proposed Shore	057-041-000-029-100-DCR1F
		Ţ				
			DEP CH.91	JAN 30 1990	PLANS	057-041-000-029-100-LIC1A
		l l	MA DPW	OCT 1956	Proposed Shore	057-041-000-029-100-TWN1A

FEB 1960

MAR 1964

Proposed Shore

Proposed Shore

MA DPW

MA DPW

057-041-000-029-100-TWN1B

057-041-000-029-100-TWN1C

Structure Assessment Form

Town: Plymouth
Structure ID: 057-041-000-029-100

MADPW	OCT 1956	Proposed Stone	057-041-000-029-100-COE1A
TOWN	SEP 2001	Town of Plymouth for	057-041-000-029-100-COE1B

Structure Assessment Form

Structure ID: 057-044-000-025-100

Town: Plymouth

Property Owner:	i. Algophald 1848 of 1868 1880 1884 and alle you have to great Algophaladealladd in de trop Ato da An Ald Massiladeal	Location:	derutatarielefaktionmodelf-enkur (n. dyngaputto-entaritephajoidaarielf- (h	Date:
Local	CONTRACTOR OF THE PROPERTY OF	White Horse Be	ach	8/31/2006
Presumed Structure	e Owner:	Based On Comn	nent:	ŕ
Local		DCR – Contract	Drawings	principal del tres principal del principal d
Owner Name:		* Earliest Structur	e Record:	Estimated Reconstruction/Repair Cost:
Plymouth	,		1957	\$20,420.00
	evation: FIRM Map Zone			
130 Feet Feet N	V AVD 88	2 Feet NGVD		The second secon
Primary Type:	Primary Material:	Primary Height:	,	
Revetment	Stone	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		
			Ī	
Structure Summary				第二十四十四十四十四十四十四十四十四十四十四十四十四十四十四十四十四十四十四十四
Condition Rating Good Level of Action Description Structure observed to exhibit ver problems, superficial in nature. Not landform is present. Structure adequate to provide protection frocoastal storm with no damage. A to prevent / limit future deteriorate life of structure.		ry minor Minor erosion re / landform rom a major Actions taken	Rating Action Description	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)
			empatikistasan valan erata ilikan valan carrakan Adda Adda Adda Adda Adda Adda Adda Ad	
Structure Image		ructure Document		
057-044-000-025-1	00-PHO1A.jpg M	A DPW JUI	N 1957 Prop	posed Shore 057-044-000-025-100-DCR1A
		•		

Structure Assessment Form

Town: Plymouth

Structure ID: 057-045A-000-100-100

Property Owner:	klin-klant tandisinh-kaner-u-krosu-pimpindaru-duruk melara. Sadah-ukr-ukh hikukhur-tili recindah tili isi U-u-i, k u-u-i, ade dalah masin-kanasa-unt	Location:	dahna adarah tadi Nazir din-Karansanan telebahkan sani 4 orina sambuhkan dika atessi inaunstan	enumena sindrana arinta i neutranda azarintu u satharitu kranci universi firminda timbolo di anticul del cultur son arazar su i numero. Date:	and the second
Local		White Horse B	each	8/31	1/2006
Presumed Structure	e Owner:	Based On Com	ment:		
Local		Property Owne	ership		7,7 4 11
Owner Name:		Earliest Structu	ire Record:	Estimated Reconstruction/Repair	Cost:
Plymouth	7		0	\$86,48	
Length: Top El	levation: FIRM Map Zone:	FIRM Map Elevation	atomate ligitim giser gregori, a suspensi giseria kanala a sen majubilijas trasus tratisiministe sat o teruse di ottavi gija kajatin e antisi pristrussius yra tilin aja yo kijaku-yaja uji pi commandu gis on:		
720	V2		24		
Feet Feet N	IAVD 88	Feet NGV	D		
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary Height			
1					
Structure Summary		n in good condition	There are some	armor stones along the bottom which have crac	kod
Condition	B		Priority	IV	
Rating	Good Minor		Rating Action	High Priority Consider for Next Project Construction Listing	na
Level of Action Description	Structure observed to exhibit very	minor	Action Description	High Value Inshore Structures with Potential	_
Description	problems, superficial in nature. Mito landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Description	for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwelling impacted / 100 feet of s horeline)	
Structure Image 057-045A-000-100		ucture Documen	tas :		

Structure Assessment Form

Town: Plymouth

Structure ID: 057-045A-000-100-200

wner: / stion: FIRM Map Zon	Earliest Str		Estimated Re	8/31/2006 econstruction/Repair Cost:
tion: FIRM Map Zon	DCR – Con Earliest Stri	tract Drawings ucture Record:	Estimated Re	and the state of t
tion: FIRM Map Zon	DCR – Con Earliest Stri	tract Drawings ucture Record:	Estimated Re	and the state of t
	Earliest Str	ucture Record:	Estimated Re	and the state of t
	deskildelik dilikariden 18. olu maassa eristerika sideksega silmaakin kulukakinen. Seksildelik dilikariden 18. olu maassa eristerika sideksega silmaakin kulukakinen.		Estimated Re	A CONTROL OF THE CONT
	e: FIRM Man Flev	1952		#70C 7C2 00
	e· FTRM Man Flev	CATRONIC DE DE LINCONNE, DACI ADRIGUAÇÃO ANDRIGA DE LINCONNE, DE LINCO	1	\$796,752.00
	C. I III I I I I I I I I	vation:		The Control of the Co
	V2	24		
D 88	Feet N	NGVD		. 417
Primary Material:	Primary Height	t:		
Stone	Under 5 Feet			
Secondary Material:	Secondary Hei	ght:		A LANGE
por	acce, 100 lock long.	Priority Rating Action	I None Long Term Planning Co	nsiderations
eterioration, section loss, crandermining, and/or scour. Strong risk of significant dama illure during a major coastal should be monitored until pairs/reconstruction can be isken to reconstruct structure upacity to resist a major coastandform eroded, stability threandform not adequate to prouring major coastal storm. Accreate landform to adequate	cking, spalling, ructure has ge and possible storm. Structure initiated. Actions to regain full stal storm. satened. vide protection etions taken to limits for full	Description	No Inshore Structures o Units Present	r Residential Dwelling
			miningan tahun ay inggayar sigla ana gagaanta mayya mayaang ana da	enerchandition disselfence para sent en eine Annies zugele gill auch die erzeitste die aufste der Anneche
D-PHO2A.j pg	MA DPW	JAN 1952 Prop	osed Stone 057-049	5A-000-100-200-DCR1A
	Secondary Material: ne groins, with approximately arge stone. A majority of the each. Each groin is approximately agore tructure exhibits advanced leaterioration, section loss, crandermining, and/or scour. Strong risk of significant dama illure during a major coastal should be monitored until expairs/reconstruction can be isken to reconstruct structure apacity to resist a major coastal storm of the endform	Secondary Material: Secondary Heimstein Secondary Heimstein Secondary Material: Secondary Material: Secondary Heimstein Secondary Heimstein Secondary Heimstein Secondary Heimstein Secondary Secondary Heimstein Heimstein Heimstein Secondary Heimstein Heimstein Heimstein Secondary Heimstein Heimstein Heimstein Heimstein Secondary Heimstein Hei	Secondary Material: Secondary Height: The groins, with approximately 200 foot spacing between them. The grarge stone. A majority of the length of each groin is above mean low each. Each groin is approximately 100 feet long. Priority Rating Action Tructure exhibits advanced levels of eterioration, section loss, cracking, spalling, and/or scour. Structure has rong risk of significant damage and possible illure during a major coastal storm. Structure mould be monitored until epairs/reconstruction can be initiated. Actions ken to reconstruct structure to regain full apacity to resist a major coastal storm. Actions taken to each andform rot adequate to provide protection uring major coastal storm. Actions taken to ecreate landform to adequate limits for full rotection from a major coastal storm. Structure Documents:	Secondary Material: Secondary Height: The groins, with approximately 200 foot spacing between them. The groins show no crest or side is arge stone. A majority of the length of each groin is above mean low water, so they have little to each. Each groin is approximately 100 feet long. Priority Rating None Action Long Term Planning Co Bructure exhibits advanced levels of elerioration, section loss, cracking, spalling, addermining, and/or scour. Structure has rong risk of significant damage and possible illure during a major coastal storm. Structure rould be monitored until epairs/reconstruction can be initiated. Actions ken to reconstruct structure to regain full apacity to resist a major coastal storm. Actions taken to roreate landform not adequate to provide protection uring major coastal storm. Actions taken to roreate landform to adequate limits for full office of the process of the p

Structure Assessment Form

Town: Plymouth

Structure ID: 057-045A-000-113-100

Property Owner:	which yet out this look of the White of the Confession to the Conf	Location:	skyvkenvendeden i filmetolitikk raterialaker aller och kallaker frammt	liese to trest and the content content of the highly grown party and highly beging	Date:	enterstation (Control of the August 1985)
Local		White Horse Be	each			8/31/2006
Presumed Structure	e Owner:	Based On Com	ment:			
Local	St. 1 for 2 for 1933, after a victor to the first over the contract of the state of the contract of the contra	Property Owne	rship		1111000 1000 1011 1011 101 101 101 101	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
Owner Name:		Earliest Structu	re Record:		Estimated Reconstru	ction/Repair Cost:
Plymouth			0			\$33,772.00
Feet Feet N Primary Type: Revetment Secondary Type: Structure Summary	Primary Material: Stone Secondary Material: ': stone revetment. The side slope is	Feet NGVI Primary Height: 10 to 15 Feet Secondary Height:	14 D	e is cracked.		
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection from coastal storm with no damage. Act to prevent / limit future deterioration life of structure.	nor erosion / landform m a major ctions taken	Priority Rating Action Description	High Value for Infrastru Density Re	by or Next Project Const Inshore Structures v ucture Damage and/o isidential Dwellings (100 feet of shoreline	vith Potential or Moderate 1-10 dwellings
Structure Image		ucture Document	ts:			

Structure Assessment Form

Town: Plymouth

Structure ID: 057-045B-000-014A-100

Property Owner:	nariddiahedireldireldireldireldireldireldireldire	Location:	riadisci cauring diané Asheeld dikit Aradis, Kurutind Sara ing Kulturian	Date:	
Local		White Horse Bea	ach	8/31/2006	
Presumed Structure	e Owner:	Based On Comment:			
Local		Property Owner	ship		
Owner Name:		Earliest Structure	e Record:	Estimated Reconstruction/Repair Cost:	
Plymouth	,		0	\$283,800.00	
	evation: FIRM Map Zone: V4	FIRM Map Elevation			
4300 Feet Feet N	AVD 88	Feet NGVD			
Primary Type: Revetment Secondary Type:	Primary Material: Stone Secondary Material:	Primary Height: Under 5 Feet Secondary Height:	_		
J		1			
Condition Rating Level of Action Description	B 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 life of structure.	minor inor erosion / landform om a major ctions taken	Priority Rating Action Description	II Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage	
Structure Imag 057-045B-000-014	 -	ucture Document	SS:		

Structure Assessment Form

Town: Plymouth Structure ID: 057-045B-000-014A-200

Property Owner:	eastablichte der Hannt der Bert zu deuen der Gestermente von werden der von der vertrechte der der der der der der der der der de	Location:	l dagen van de stande stade de d	Date:
Local	4.10	White Horse Be	ach	8/31/200
Presumed Structure	e Owner:	Based On Comm	nent:	
Local		Property Owner	ship	
Owner Name:		Earliest Structur	e Record:	Estimated Reconstruction/Repair Cost:
Plymouth	/		0	\$283,800.00
Length: Top El	evation: FIRM Map Zone:	FIRM Map Elevatio	_	MACHINE CONTROL CONTRO
4300	V4	1		
Feet Feet N	AVD 88	Feet NGV)	
Primary Type:	Primary Material:	Primary Height:	_	
Revetment	Stone	Under 5 Feet		
Secondary Type:	Secondary Material:	Secondary Height:	-	
l Structure Summary		1		
Condition	B		Priority	II Low Priority
Rating	Good		Rating	Low Priority
Level of Action Description	Minor Structure observed to exhibit very	minor	Action Description	Future Project Consideration Inshore Structures Present with Limited
	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 deteriorati life of structure.	e / landform om a major actions taken		potential for Significant Infrastructure Damage
Structure Image 057-045B-000-014		ucture Document	S:	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-046-000-002A-100

Presumed Structure Owner: Local	Property Owner:		Location:	arr-Vill áttatá-fríkus et siáltattáltáláskálátálasáttastusárisátusájátasátjátasátál	Date:
Dozer Property Ownership	Local		Manomet Point	-	9/1/2006
Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Co	Presumed Structure	e Owner:	Based On Com	ment:	· · · · · · · · · · · · · · · · · · ·
Plymouth Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 850	Local		Property Owne	rship	
Plymouth	Owner Name:		Earliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Over 15 Feet Secondary Heigh	Plymouth	,		0	\$1,049,070.00
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Revertment Stone Over 15 Feet Secondary Type: Secondary Material: Secondary Height: Structure Summary: This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Priority IV Rating Fair Rating High Priority Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide fully protection from major coastal storm with little to indiffer mexists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.			-		
Primary Type: Primary Material: Primary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Rating High Priority Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to with stand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.					
Revetment Secondary Type: Secondary Material: Secondary Height: This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Rating Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm with of lity protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.		NAVD 88	Feet NGV	D	
Secondary Type: Secondary Material: Secondary Height: Structure Summary: This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Rating Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.	A ROUND AND ADDRESS OF THE PARTY OF THE PART	The same of the sa	A TOTAL OF THE PARTY OF THE PAR		
Structure Summary: This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Fair Rating Level of Action Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.		*	9		
This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Rating Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shorelline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.	Secondary Type:	Secondary Material:	Secondary Height:	-	THE RELL CONTRACTOR OF THE PARTY OF THE PART
This structure is a grouted stone revetment along the base of the bluff between Stage Point and Manomet Point. There are many areas of shifted and failing armor along the base of the structure. Condition C Rating Fair Rating Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.		1			
landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life.	Rating Fair Level of Action Moderate Description Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structure to withstand major coastal storm of moderate damage. Actions taken structure to provide full protection		ing, spalling, cture adequate with little to n to reinforce n from major life of	Rating Action	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
Structure Images: Structure Decuments		landform exists. Landform may r to fully protect shoreline during a storm. Actions taken to provide a	not be sufficient n major coastal addition		
Structure mages. Structure Documents.	Structure Image	es: St	ructure Document	ts:	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-046-000-003-100

	:	Location	1:		Date:	
Local		Manomet	Point			9/1/200
Presumed Struc	ture Owner:	Based On	Comment:			
Local		DEP - Ch	91 License	THE RESERVE OF THE PARTY OF THE		
Owner Name:		Farliest St	ructure Record:		Estimated Reconstruction	n/Penair Coct
Plymouth	/	Lariest St	1999	⇒ °	Estimated Reconstruction	\$60,060.00
to the second se		actidititismbenininnen järvi inerkinend veikkalikinsi jajakskojatidus viin insuavimishtälevihtääsiaka päesse senkalansiyteksi viinerkinnin viiniinistis kun ommuntin esistääsiatuuri ja vaiki viinii siikki sattata ekki kaka	e statistica de la companie de la co	ilandisis veri immericanoni preliptas, si deplicat del vidas cadal to pli più del Malada di calabo addessa del Tra centro se terro con tra calaborati i anticologica del producto del producto del producto del producto del	ed EMPC-vickability sinkmologius inkomusis missessi a stari 14 9400 bilah kilokabili da kalenda, kilokata, gip Bilah Kalenda (1888-1905) bilah kilokabili alah di rasar ilipat jarah jakar persama da salah sasara s	Todaya a sa
	p Elevation: FIRM Map	The second secon		THE HEAT		
50	11	V2	28	a di Ame	F. Carrier	
Feet Fee	et NAVD 88	Feet	NGVD			
Primary Type:	Primary Material:		ht:		Statement Comments	
Revetment	Concrete	5 to 10 Feet		ou (Sa le		
Secondary Type	Secondary Materia	l: Secondary He	eight:			4
		1				
Structure Summ	nary: dirt/concrete ramp from street				CALLED TO THE STATE OF THE STAT	
Condition Rating Level of Action Description	Structure exhibits advance deterioration, section loss undermining, and/or scoustrong risk of significant of failure during a major coashould be monitored until repairs/reconstruction cataken to reconstruct struction capacity to resist a major Landform eroded, stability	s, cracking, spalling, ur. Structure has damage and possible astal storm. Structure in be initiated. Actions cture to regain full coastal storm. y threatened.	Priority Rating Action Description	Listing Inshore Str Infrastructu	or Active Project Improve uctures with potential for ire Damage and/or Limit Dwellings (<1 dwelling	ed
	during major coastal store recreate landform to adec protection from a major c	quate limits for full				
Structure Ima 057-046-000-00	during major coastal stori recreate landform to adec protection from a major c	quate limits for full oastal storm. Structure Docur	AUG 1952	Proposed Shore	057-046-000-003-1	
	during major coastal stori recreate landform to adec protection from a major c	quate limits for full oastal storm. Structure Docur		Proposed Shore PLANS Proposed Shore	057-046-000-003-1 057-046-000-003-1 057-046-000-003-1	00-LIC1A

Structure Assessment Form

Town: Plymouth

Structure ID: 057-046-000-083-100

		Location:	2 3 2 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Date:
Local		Manomet Poin	t	9/1/2006
Presumed Structure	e Owner:	Based On Com	ment:	
Local		Property Owne		THE RESERVE OF THE STREET, AND
Owner Name:		Earliest Structu	re Pecord:	Estimated Decemptry etian/Dennis Costs
Plymouth	/	Larnest Structo	0	Estimated Reconstruction/Repair Cost: \$324,298.00
	e para de la como de la compositiva del compositiva della composit	namen, nijahuhan jarah jirah kejat diadaruk di sejat diadah da Malaman adalah sejat bangai dan da	rhideidh feidh feidheidh an am leidhideidh ann an agus go go agus gheilleidh a seil a bh a ga bhailleidh a cha Bhailleidh a chaill a chaill a chailleidh a chaill a chaill a bhailleidh a chaill a chaill a chaill a chailleidh	
	levation: FIRM Map Zone:			
415	V2	2	28	We have a second of the second
Feet Feet N	IAVD 88	Feet NGV	D	
rimary T y pe:	Primary Material:	Primary Height:		
Revetment	Stone	10 to 15 Feet		
econdary Type:	Secondary Material:	Secondary Height	:	
		,		N Comment
tructure Summary		,		
		f the the northern fac	e of Manomet Poin	nt. The stone appears to have been dumped rather
an placed and th	us the interlocking of the armor la	yer is poor. There is	some shifting and	cracking of armor stone evident.
Condition	C		Priority	IV
ating	Fair		Rating	High Priority
evel of Action	Moderate Structure is sound but may exhil		Action	Consider for Next Project Construction Listing High Value Inshore Structures with Potential
Description	deterioration, section loss, crack undermining, and/or scour. Structo withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or way landform exists. Landform may to fully protect shoreline during a storm. Actions taken to provide a material for full protection and extending and control of the storm of the storm of the storm.	ing, spalling, cture adequate with little to n to reinforce n from major life of ye damage to not be sufficient n major coastal addition	Description	for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of s horeline)
A CONTRACTOR OF THE CONTRACTOR	es: St	ructure Documen	ts: N 1954 Prop	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-046C-000-027-100

Property Owner:	annoness and and the second of the second	Location:	alternationalistatio-unlastitie + e auth-si k eiglichte gescherfunkt zu en en Szan h- en he namezoak alt	artikalakka ar PCP da-qirayord Afir 1964-1964 1666 1666 1666 1666 1666 1666 1666	Date:
Local		White Horse	Beach		8/31/2006
Presumed Structure	e Owner:	Based On Co	mment:		,
Local		Property Ow	nership	and the second s	
Owner Name:		Earliest Struc	ture Pecord:	Estimated 5	Occonstruction/Banair Costs
Plymouth	/	Edinest Struc	0	Estillated	Reconstruction/Repair Cost: \$591,591.00
	to a series of the series of t	nterverler som mår det som til det	aaddick dikkennak lijiy virwy edilikiny galey disk if dif frikantid oo alku vien sygellic is, waxwingsey o Wallow kine y viina fi disk water make deel til in sygery action oo liik soon deel as is soon bereit.	eleksi in-tan 1900 siinkalaa kuu kuung 1	
	levation: FIRM Map Zone:	the second secon	and the same of th	TO THE PERSON NAMED IN	
985	V	1	17		A. D.
Feet Feet N	MAVD 88	Feet NG	SVD		1 2
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet			A Sermen
Secondary Type:	Secondary Material:	Secondary Heigh	nt:		- 7.1 - 7.1 - 7.1
1					
Structure Summary				MARINE CONTRACTOR CONTRACTOR	Automotive Compressor
This su ucture is an	almost vertical stone revetment.	mere are areas or	displaced armor sto	one and slumped crest.	
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action	Moderate		Action	Consider for Next Proje	ect Construction Listing
Description	Structure is sound but may exhit deterioration, section loss, crack undermining, and/or scour. Structo withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or way landform exists. Landform may refully protect shoreline during a storm. Actions taken to provide a material for full protection and extending and control of the storm of the storm of the storm.	ing, spalling, cture adequate with little to n to reinforce nife of we damage to not be sufficient major coastal addition	Description	High Value Inshore Str for Infrastructure Dama Density Residential Dw impacted / 100 feet of s	age and/or Moderate vellings (1-10 dwellings
Structure Image 057-046C-000-027		ructure Docume	nts:	rener er visitende hallet er denne gemelgem er de deer vere kenn geske fande de er biske fan de beske ken in beske fan de fande de er biske fan de fan de fande de er biske fan de fan de fande de er biske fan de fande de	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-048-000-197-100

Property Owner:	unit of the first of the second secon	Locatio		esisteliadiside silliside 446 in 460 460 is hada 150 ng thubu 150 ng thubu 160 ng thubu 160 ng thubu 160 ng th	Date:
Local		Manome	t Bluffs		9/1/2006
Presumed Structure	e Owner:	Based Or	n Comment:		
Local		Property	Ownership	The state of the s	
Owner Name:		Farliest 9	Structure Record:		timated Reconstruction/Renair Costs
Plymouth		Lanest	0		stimated Reconstruction/Repair Cost: \$1,294,722.00
	en ander en	nn de service - un medical medical de de la constitue de constitue de constitue de la constitue de la constitue de constitue de constitue de la constitue del la constitue de constitue de la constitue de la constitue de la constitue de la	difference - Petrono kilo kada bilah dida dalah bir Badak perahan yangan salam, upaga kelaja yaya yara pera-pe Bekada diban di Pambil Bada bilah dida bilah dida dida di penda bilah dida dida bilah dida dida bilah dida did	alle va himin saka kela masa sakah dalah dalah dalah dalah saka dalah saka dalah saka dalah saka dalah saka da Masa dalah saka dalah saka saka dalah dalah saka dalah saka dalah saka dalah saka dalah saka dalah saka dalah	gg hangs granded ekkil med kalan eginda saka makilikahakasak gibibangi kelalakan egin kelala kalan kalan saka Kalan kalan makilan medi membakan kalan saka pangangan dian diakkan kalan bahakan egin terjak apan saka sa saka
	levation: FIRM Map 2	100 - 31		Service Control	AND THE STREET
975		V2	28	Alter and the	
Feet Feet N	AVD 88	Fee	t NGVD		
Primary Type:	Primary Material:	Primary Hei	- the state of the		
Groin/ Jetty	Stone	Under 5 Fee	et	42.16	
Secondary Type:	Secondary Material:	Secondary F	leight:		
				Barry .	
Structure Summary				postupe as at a	
sand. Each groin i	is about 75 to 100 feet long.	nd approximately to i	mean low water. A r	najority of the groin	s are unraveled and not trapping
Condition	D		Priority	II	
Rating	Poor		Rating	Low Priority	
Level of Action	Major Structure exhibits advanced		Action		ct Consideration ctures Present with Limited
Description	deterioration, section loss, of undermining, and/or scour. strong risk of significant dar failure during a major coast should be monitored until repairs/reconstruction can be taken to reconstruct structu capacity to resist a major coandform eroded, stability the Landform end adequate to put during major coastal storm. recreate landform to adequate protection from a major coandinate.	cracking, spalling, Structure has mage and possible al storm. Structure the initiated. Actions are to regain full bastal storm. bareatened. brovide protection actions taken to ate limits for full	Description		Significant Infrastructure Damage
Structure Image		Structure Docu			
)57-048-000-197-1	00-PHO1A.jpg	MA DPW		roposed Shore	057-048-000-197-100-DCR1A
		MA DPW		Proposed Shore	057-048-000-197-100-DCR1B
		MA DPW		Proposed Shore	057-048-000-197-100-DCR1C
		MA DPW		roposed Shore	057-048-000-197-100-DCR1D
		MA DPW		roposed Shore	057-048-000-197-100-TWN1A
		PLY DPW	AUG 1979 T	own of Plymouth	057-048-000-197-100-TWN1B
		DI A UDIVI	MAY 10/11 S	hore protection	057 049 000 107 100 TW/N10

Structure Assessment Form

Town: Plymouth

Structure ID: 057-050-000-003-100

Property Owner:	tan-unthorast-re-ord-unth-ri-lansitim-ri-lansitim-lat-skat-frie lithelithige (fil- kapit-fise-thir) dan e-resembly currer, Josephild dasten-de theur "hith fire	Location:	i ish hairibida diri faan,ai udiribiadadi waxilgaadi tiraan bakehaa ito baaci -a.c.s. So	Date:
Local	the control of the second of t	Fisherman's La	ne	9/1/200
Presumed Structure	e Owner:	Based On Com	ment:	,
Unknown			and the second second second second	
Owner Name:		Earliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
	,		0	\$72,996.00
Length: Top El	evation: FIRM Map Zone:	FIRM Map Elevation	ocaszczennowa "Personer proposaciona postor proposación (** *********************************	
50	V2		20	
Feet Feet N	AVD 88	Feet NGV	D	THE WAY
Primary Type:	Primary Material:	Primary Height:		
Groin/ Jetty	Stone	Under 5 Feet		
Secondary Type:	Secondary Material:	Secondary Height:	-	
1		1		
This structure is a promontory.		e beach. This could	either be a very o	old groin or simply natural armoring of a small
Condition	F		Priority	· · · · · · · · · · · · · · · · · · ·
Rating	Critical		Rating	None
Level of Action	Immediate Conditions of structure/landform r		Action	Long Term Planning Considerations No Inshore Structures or Residential Dwelling
Description	emergency stabilization as failure potential loss of property and/or liferoded, loss of integrity. Structure critical levels of deterioration, sec cracking, spalling, undermining, a Structure provides little or no protimajor coastal storm. Actions take reconstruct structure to regain full Landform stability is severely commate of erosion/material loss may and landform does not provide ad protection from a major coastal staken to recreate landform to ade for full protection from a major coastal staken to recreate landform to ade for full protection from a major coastal staken to recreate landform a major coastal staken to recreate	fe. Landform e exhibits tion loss, ind/or scour. ection from a into totally capacity. inpromised, be increasing, lequate form. Actions quate limits	Description	Units Present
Structure Image		ucture Documen	und the additional content of the co	

Structure Assessment Form

Town: Plymouth

Structure ID: 057-052-000-025-100

and the second s		Location:			Date:	
Local		Harlow's Landing		9/1/		2006
Presumed Structure	e Owner:	Based On Comr	nent:			
Local	The second second second second	DPW - Drawing	S	The state of the s		
Owner Name:		Earliest Structu	re Record:	Fst	imated Reconstruction/Repair C	ost:
Plymouth	7	Editios structu	1959		\$1,117,459	
	ar i ar an	gaggyanusus va kalakta (1914 A 1994 GOOStasta Golden vaa kalamaa kasuusta opaa kashades si eya Kangana kashada kalat valsta vasta eriste kastaa staksissa kashada kasuusta suusta (1944 A 1944 A 1944 A 1944	in kirjum handada makada u yandadaka sa firindan efankada en firinda en firin	or in the state of	and the state of t	
	levation: FIRM Map Zone:	FIRM Map Elevation	<u>n:</u> 9			
1430	V2					
	IAVD 88	Feet NGVI	,	The same of	The sales of	
Primary Type:	Primary Material:	Primary Height: 10 to 15 Feet		1	THE LANGE	
Revetment	Stone	,				
Secondary Type:	Secondary Material:	Secondary Height:			THE TOTAL	
	1	1				
Structure Summary	y: stone revetment. It is grouted at t	ho couthern and and	not grouted at the	o porthorn and 3	Thora are areas of clumped	\ <u></u>
and volus between						
Condition Rating	C Fair		Priority Rating	IV High Priority		
Condition Rating Level of Action	Fair Moderate	it minor	Rating Action	High Priority Consider for N	Next Project Construction Listing shore Structures with Potential	
Condition Rating	Fair	ng, spalling, ture adequate with little to to reinforce for major fe of e damage to ot be sufficient major coastal ddition	Rating	High Priority Consider for N High Value Instructor Density Resid		
Condition Rating Level of Action Description Structure Imag	Fair Moderate Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Struction withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wavelandform exists. Landform may not fully protect shoreline during a storm. Actions taken to provide a material for full protection and exists.	ng, spalling, ture adequate with little to to reinforce for of e damage to ot be sufficient major coastal ddition tended life.	Rating Action Description	High Priority Consider for N High Value Ins for Infrastructs Density Resid impacted / 10	shore Structures with Potential ure Damage and/or Moderate lential Dwelli ngs (1-10 dwellings 0 feet of s horeline)	
Condition Rating Level of Action Description Structure Imag	Fair Moderate Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structon 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 fully protect shoreline during a storm. Actions taken to provide a material for full protection and extending for the full protection and extending the full pro	ng, spalling, ture adequate with little to to reinforce from major fe of damage to ot be sufficient major coastal ddition tended life.	Rating Action Description	High Priority Consider for N High Value Ins for Infrastructo Density Resid impacted / 100	shore Structures with Potential ure Damage and/or Moderate lential Dwellings (1-10 dwellings 0 feet of s horeline)	4
Condition Rating Level of Action	Fair Moderate Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Struction to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wavelandform exists. Landform may not fully protect shoreline during a storm. Actions taken to provide a material for full protection and existence of the provide and the protection and existence of the protection and exi	ng, spalling, ture adequate with little to to reinforce for for major fe of e damage to ot be sufficient major coastal ddition tended life.	Rating Action Description CS: C 1959 Prop	High Priority Consider for N High Value Ins for Infrastructs Density Resid impacted / 10	shore Structures with Potential ure Damage and/or Moderate lential Dwelli ngs (1-10 dwellings 0 feet of s horeline)	A 3

Structure Assessment Form

Town: Plymouth

Structure ID: 057-052-000-025-200

		Location	delitarioreministrato est estratorialestratorialestratorialestratoriales]:	HAP BARRADE LABORILA BARBADA (BARBADA) (CALABADA) (CALABADADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADA) (CALABADADA) (CALABADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADADA) (CALABADAD	Date:
Local		Harlow's	Landing		9/1/2006
Presumed Structure	e Owner:	Based On	Comment:		
Local	The same of the sa	DPW - Dr	awings		The contract of the succession of the contract
Owner Name:		Farliest St	ructure Record:	_	stimated Reconstruction/Repair Cost:
Plymouth	/	Edification	1953	Ī	\$510,972.00
Length: Top E	evation: FIRM Map Zor	ne: FIRM Map Ele	evation:	meritimen del del met del	2000 Medicial from subagonisation with 4.5% "The Very Secular Security
350		V2	19		
Feet Feet N	AVD 88	Feet	NGVD		
Primary Type:	Primary Material:	Primary Heig	A STATE OF THE PARTY OF THE PAR		THE LANGE
Groin/ Jetty	Stone	Under 5 Feet			
Secondary Type:	Secondary Material:	Secondary He	eight:		1
				CONTRACTOR OF THE PARTY OF THE	
Structure Summary					
groins are essentia	lly non-functional. Each groin is	s approximately 50	feet long.	groins extend approx	imately to mean low water. The
Condition	F		Priority	III	
Rating	Critical		Rating	Moderate Pr	iority
Level of Action	Immediate		Action	Consider for Listing	Active Project Improvement
Description	Conditions of structure/landforemergency stabilization as fai potential loss of property and/eroded, loss of integrity. Structure critical levels of deterioration, scracking, spalling, underminin Structure provides little or no parajor coastal storm. Actions to reconstruct structure to regain Landform stability is severely rate of erosion/material loss mand landform does not provide protection from a major coastal taken to recreate landform to a for full protection from a major.	ture may result in or life. Landform ture exhibits section loss, g, and/or scour. protection from a aken to totally full capacity. compromised, any be increasing, a adequate al storm. Actions adequate limits	Description	nshore Stru	ctures with potential for e Damage and/or Limited Owellings (<1 dwelling impacted / horeline)
and the second s		Structure Docur	ments:	reve stormen. Verhalte dat die Einstelle der Verhalte von der Verhalte von der Verhalte von der Verhalte dat die Einstelle der Verhalte von de	
Structure Image		MA DPW		Proposed Shore	057-052-000-025-200-DCR1C
Structure Image 057-052-000-025-2	00-PHO2A.jpg	WIN COLUMN			1007 002 000 020 200-001(10

CZM South Shore Coastal Infrastructure Inventory and Assessment

Structure Assessment Form

Town: Plymouth

Structure ID: 057-053-021-019-100

Key: community-map-block-parcel-structure

		Location	:		Date:	
Local		Lookout Po	oint	Anna Tenans and Anna Anna Anna Anna Anna Anna Anna		8/31/2006
Presumed Structur	e Owner:	Based On (Comment:		į.	
Local	and the second s	USACE - F		- 182 m. a. 462		
Owner Name:					inabad Daras I	/D: C :
Plymouth	/	Earliest Str	ructure Record:	Est	imated Reconstruction	\$117,810.00
	e vitaria de la composition della composition de la composition della composition de	Areabuses, 1-104 o villatellikkeidelikkeidelikki villatellikkeidelikke	glick V-line kontri sombon till en frankt rettinning skille blick och som en som en som en som en som en som en Som blinde skille som en s	ativerio el vivili fransioni di della disconsiona di prima proprio di disconsiona di disconsiona di disconsiona		Ψ117,010.00
	levation: FIRM Map					
750		V2	21			
Feet Feet M	NAVD 88	Feet	NGVD	MANAGEM		
Primary Type:	Primary Material:	Primary Heigh				
Groin/ Jetty	Stone	Under 5 Feet			100	
Secondary Type:	Secondary Material:	Secondary He	ight:		· X	6
	Ш	1			-	
Structure Summan						
of structures was i	stone groins south of the en not evaluated due to high tid	e. Each groin is approx	ximately 150 feet long.	colopes are in got	a condid on. Odler Ne	au anu toe
Condition	В		Priority	IV		
Rating	Good		Rating	High Priority		
Level of Action	Minor		Action	Consider for N	lext Project Construct	ion Listing
Description	Structure observed to exhi problems, superficial in nar to landform is present. Structure adequate to provide protect coastal storm with no dam to prevent / limit future details of structure.	ture. Minor erosion ructure / landform tion from a major age. Actions taken	Description	for Infrastructor Density Resid	shore Structures with ure Damage and/or Monential Dwellings (1-10) of feet of shoreline)	oderate
		Structure Docum				
Structure Imag 057-053-021-019-1		Structure Docum	DEC 1951 Propo	osed Stone	057-053-021-019-1	

CZM South Shore Coastal Infrastructure Inventory and Assessment

Structure Assessment Form

Town: Plymouth

Structure ID: 057-053-021-059-100

Key: community-map-block-parcel-structure

Property Owner:		Location			Date:
Local		Ellisville Ha	arbor		8/31/2006
Presumed Structure	e Owner:	Based On (Comment:		
Local		USACE - F		14 100 market accordance	and the second s
Owner Name:				-	Secretary Description (Co. 1977)
Plymouth	/	Earliest Str	ucture Record: 1960	Est	imated Reconstruction/Repair Cost: \$76,355.00
entre a superior de la companya del companya del companya de la co	ting to the community of military to the control of	gor MANARABABABABABABABABABABABABABA ya waka ka	FOLV HARMA AND THE THE SHEET WAS AN AND AN AND AN AND AND AND AND AND AN	aan oo dhaan ah	Ψ/ 0,333.00
	devation: FIRM Map		vation:	Part Part	
115		V2	21		
Feet Feet N	NAVD 88	Feet I	NGVD		
Primary Type:	Primary Material:	Primary Heigh	t:	-	
Groin/ Jetty	Stone	Under 5 Feet			
Secondary Type:	Secondary Material	Secondary He	ight:		V ()
Structure Summary	The second secon			к	
generally in good o	stone groin on the open bea condition. The head of the o	groin has become unrav	rance to Ellisville Ha eled.	irbor. The sidesiope	s and crest of the trunk are
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project	
Description	Structure is sound but ma deterioration, section loss, undermining, and/or scour to withstand major coastal moderate damage. Action structure to provide full procoastal storm and for exte structure. Moderate wind landform exists. Landform to fully protect shoreline distorm. Actions taken to promaterial for full protection	cracking, spalling, Structure adequate storm with little to s taken to reinforce otection from major nding life of or wave damage to may not be sufficient uring a major coastal ovide addition	Description		ures Present with Limited gnificant Infrastructure Damage
Structure Image		Structure Docum		annet ta fraitheachain a chaoin an deign a airm na chaonnachain agus, agus girithe an de a maghli	
057-053-021-059-1	00-PHO1A.jpg	MA DPW		oposed Excavation	057-053-021-059-100-DCR1A
		MA DPW		oposed Harbor	057-053-021-059-100-DCR1B
		MA DPW		oposed Excavation	057-053-021-059-100-TWN1A
		MA DPW	IADD 4000 D-	oposed Harbor	057-053-021-059-100-TWN1B
		MADPW		oposed Stone	057-053-021-059-100-COE1A

Section IV

Town of Plymouth

Structure Photographs



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

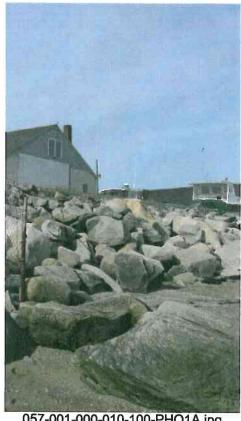
BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
057-001-000-010-100	057-001-000-010-100-PHO1A.jpg		Bourne Consullting Engineering	РLУМОUТН	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
057-008-062-018-100	057-006-062-019-100-PHO1A.jpg		Bourne Consullting Engineering	РLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Localion	Structure Condition Photo at Time of Survey
057-007-000-042-100	057-007-000-042-100-PHO1A.jpg		Bourne Consuliting Engineering	РЬТУМОИТН	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
057-012-000-046A-100	057-012-000-046A-100-PHO1A.jpg		Bourne Consullting Engineering	РLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
057-012-000-046A-100	057-012-000-046A-100-PHO1B.jpg		Bourne Consullting Engineering	PLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
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057-014A-000-021A-200	057-014A-000-021A-200-PHO2A.jpg		Bourne Consullting Engineering	PLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Pholo at Time of Survey
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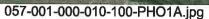
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057-046C-000-027-100	057-046C-000-027-100-PHO1A.jpg	Bourne Consullting Engineering	PLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey

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

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057-052-000-025-200	057-052-000-025-200-PHO2A.jpg	Bourne Consullting Engineering	PLYMOUTH	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
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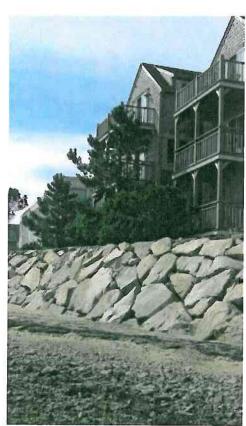




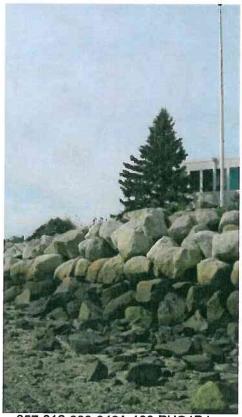
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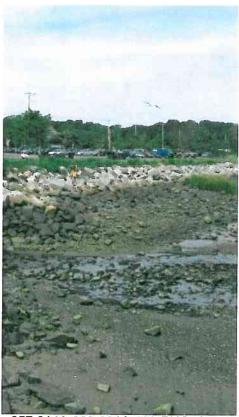
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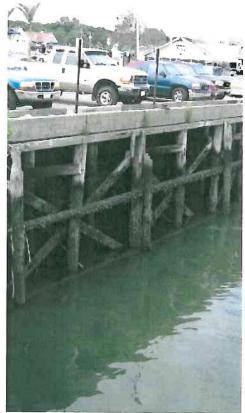
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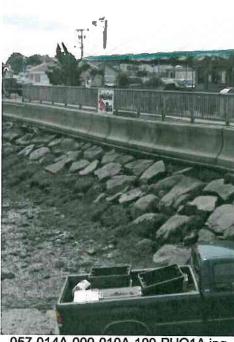
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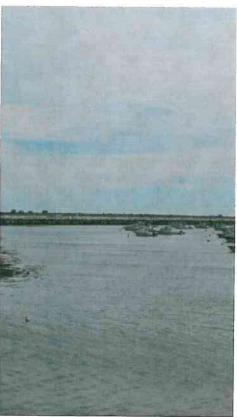
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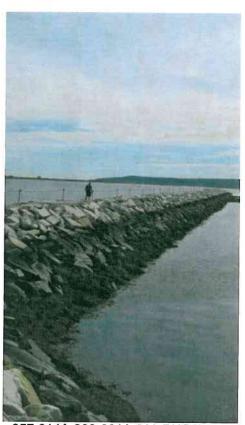
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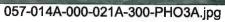


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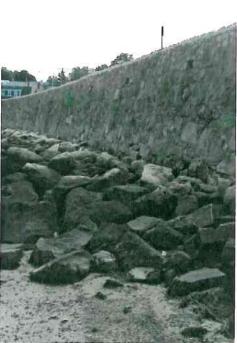




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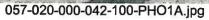


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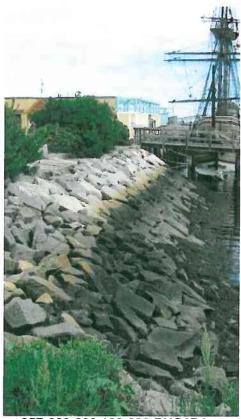




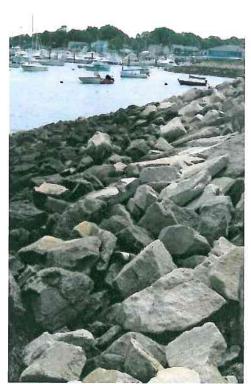
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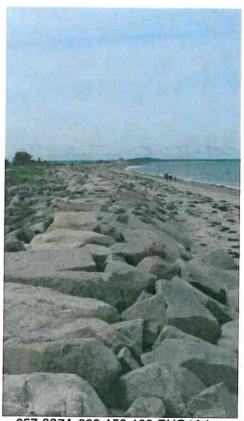
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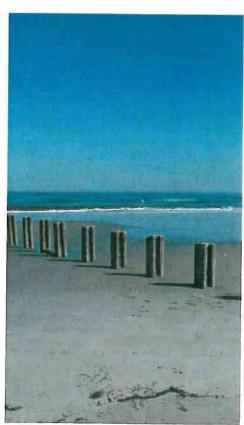
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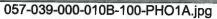


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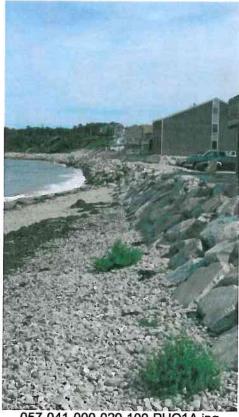




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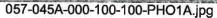


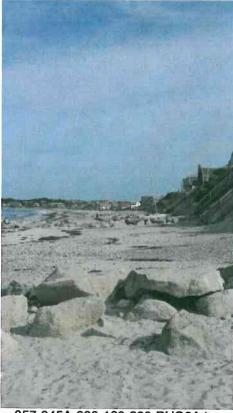
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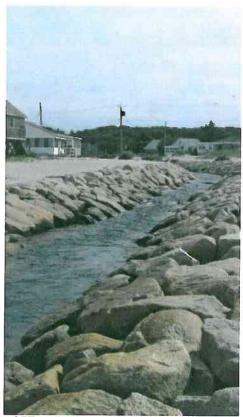




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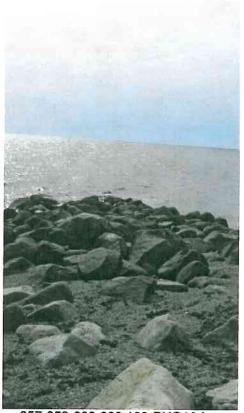




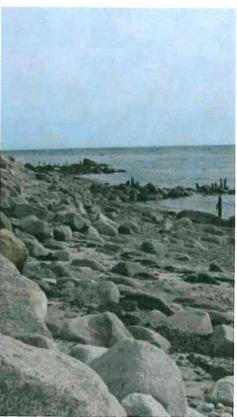
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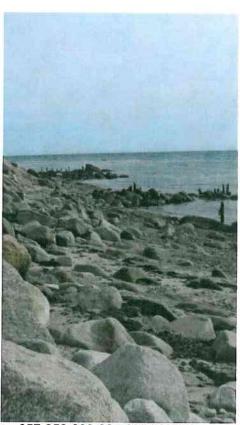
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057-052-000-025-200-PHO2A.jpg



057-053-021-059-100-PHO1A.jpg

Section V

Town of Plymouth

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

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Description	MA DPW# 1686	MA DPW# 2574	MA DPW# 1814		MA DPW# 1050			MA DPW# 1237	MA DPW# 1803	MA DPW# 2478	MA DPW# 2635	MA DPW# 1608		MA DPW# 1666	MA DPW# 2096	MA DPW# 2333	MA DEP # 418		MA DPW# 1513		2 Jettles -MA DPW# 710	MA DPW# 2796		MA DPW# 2087	MA DPW# 2452	MA DPW# 2006	MA DPW# 1654	MA DPW# 639	MA DPW# 2105
Location	Hedge Road	Hedge Road	High Cliffs		Water Street			Eel River, Near Public Bath House	Long Beach	Long Beach in front of Bath House	Warren Cove, North of Bath House		Warrens Cove	Warren Cove	Warren Cove		Stone Revetment North Side of Manomet Point		South of Contract #1475 -		North Side of Point	Indian Hill	South End of Seawall Drive	Ellisville, Vicinity of Black Pond	Ellisville	Manomet Bluffs - Vicinity of Old Beach Road	Massasoit Shores	Ellisville Harbo	Ellsville Harbor
Sheets	7	-	-	2	-	-	16	-	-	-	-	-	8	-	-	т	-	-	-	-	-	-	4	-	-	6	-	-	-
ТНю	Proposed Drainage, Headwall, Pipe and Tide Gate- Hedge Road	Proposed Shore Protection, Stone Mound - Hedge Road	Proposed Shore Protection, Stone Mound - High Cliff	Plymouth Harbor Breakwater	Proposed Bank Protection & Pavement, Water Street	Proposed Shore Protection, Rip Rap, Conc Curb, Wall, & Grading at Pligrams Memorial Park	Plymouth Harbor MA, Rehabilitation of Long Beach Breakwater	Proposed Shore Protection, Eel River	Proposed Shore Protection, Concrete Seawall and Stone Aoron - Long Beach	Proposed Shore Protection, Concrete Seawall and Stone Abron - Long Beach	Proposed Shore Protection, Stone Groin Construction, Warren Cove, North of Bath House	Plymouth Harbor, MASS, Repairs to Long Beach	Contract 2851, Reconstruction of Warrens Cove Revetment	Proposed Shore Protection, Stone Mound & Groin Construction - Warren Cove	Proposed Shore Protection, Stone Mound & Rip Rap Slope - Warren Cove	Proposed Shore Protection, Stone Mound Protection - Warren Cove	Proposed Shore Protection, Manomet Point	Proposed Stone Jettles, White Horse Beach,	Proposed Shore Protection, Groin Construction, Manamet Bluffs - Southerly of Bradford Ave.	Town of Plymouth Reconstuction of Shoreline Stonework & Groins, Lookout Point	Shore protection Project, Manomet Point	Proposed Shore Protection, Stone Mound Protection, Indian Hill	Reconstuction of Indian Head Revetment	Proposed Shore Protection, Stone Mound - Ellisville, Vicinity of Black Pond	Proposed Shore Protection, Stone Mound Protection - Ellisville	Proposed Shore Protection, Grain Construction, Manomet Bluffs - Vicinity of Old Beach Road	Proposed Shore Protection, Groin Construction, Massasoit Shores	Proposed Excavation & Stone Jetty, Ellisville Harbor	Proposed Harbor Improvement and Shore Protection -
Date	OCT 1956	APR 1967	SEP 1957	JUN 1955	JUL 1948	MAY 1956	APR 1970	MAY 1952	SEP 1957	APR 1965	MAR 1968	DEC 1956	OCT 1978	OCT 1856	FEB 1960	MAR 1964	AUG 1934	JAN 1954	JUN 1955	AUG 1879	MAY 1941	JUL 1974		DEC 1959	SEP 1984	DEC 1953	AUG 1956	DEC 1939	APR 1960
Municipality	РГУМОПТН	PLYMOUTH	РLYМОUTH	РГУМОЛТН	PLYMOUTH	PLYMOUTH	РСУМОИТН	НТЛОМУЛЯ	РГУМОПТН	РГУМОПТН	РСУМОИТН	РГУМОПТН	РІУМОЛТН	РГУМОЛТН	РЕУМОСТН	РГУМОПТН	РLYMOUTH	PLYMOUTH	РLYMOUTH	PLYMOUTH	PLYMOUTH	РГҮМОЛТН	PLYMOUTH	PLYMOUTH	РЕУМОИТН	PLYMOUTH	PLYMOUTH	PLYMOUTH	PLYMOUTH
Entity	MA DPW	MA DPW	MA DPW	COE	MA DPW	MA DPW	COE	MA DPW	MAD AM	MAD AM	MA DPW	COE	PLY DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	PLY DPW	PLY DPW	MA DEGE	PLY DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW
Contract/ Drawing Number	6159	6158	6165	6197	6144	6169A	6198	6186	6168	6182	6163	6166	6188	6163	6175	8185	6192	6148	6191	6170	6144	6143	6157	6191	6184	6172	6161	6167	6176
Document No	057-001-000-010-100-TWN1A	057-001-006-062-100-TWN1A	057-007-000-042-100-TWN1A	057-014A-000-021A-200- TWN2A	057-017-000-161-100-TWN1A	057-020-000-182-100-TWN1A	057-037A-000-339-100-TWN1A	057-039-000-010B-100-TWN1A	057-039-000-010B-100-TWN1B	057-039-000-010B-100-TWN1C	057-039-000-010B-100-TWN1D	057-039-000-010B-100-TWN1E	057-039-000-010B-100-TWN1F	057-041-000-028-100-TWN1A	057-041-000-029-100-TWN1B	057-041-000-028-100-TWN1C	057-046-000-003-100-TWN1A	057-046-000-083-100-TWN1A	057-048-000-197-100-TWN1A	057-048-000-197-100-TWN1B	057-048-000-197-100-TWN1C	057-050-000-008-100-TWN1A	057-050-000-008-100-TWN1B	057-052-000-025-100-TWN1A	057-052-000-025-100-TWN1B	057-052-000-025-200-TWN2A	057-053-021-019-200-TWN2B	057-053-021-059-100-TWN1A	057-053-021-058-100-TWN1B
BCE Structure No	057-001-000-010-100	057-001-008-062-100	057-007-000-042-100	057-014A-000-021A-200	057-017-000-161-100	057-020-000-182-100	057-037A-000-339-100	057-039-000-010B-100	057-039-000-010B-100	057-038-000-010B-100	057-039-000-010B-100	057-039-000-010B-100	057-039-000-010B-100	057-041-000-029-100	057-041-000-029-100	\neg	T	057-046-000-083-100	057-048-000-187-100		057-048-000-197-100		057-050-000-008-100	057-052-000-025-100	057-052-000-025-100	057-052-000-025-200		057-053-021-059-100	057-053-021-059-100

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

		7007 100							
BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Docembra
057-001-000-010-100	057-001-000-010-100-DCR1A	1886	MA DPW	РЕУМОИТН	OCT 1956	Proposed Drainage, Headwall, Pipe and Tide Gate - Hedge Road	2	Hedo Road	
057-008-062-019-100	057-008-062-018-100-DCR1A	2574	MA DPW	РГҮМОИТН	APR 1987	Proposed Shore Protection, Stone Mound - Hedge Road		desire Dans	
057-007-000-042-100	057-007-000-042-100-DCR1A	1814	MA DPW	РСУМОИТН	SEP 1957	Proposed Shore Protection, Stone Mound - High Cliff		High Ciffs	
057-014A-000-007-100	057-014A-000-007-100-DCR1A	2725	MA DEQE	PLYMOUTH	FEB 1971	Proposed Harbor Improvements Repairs to Bulkhead - PLYMOLTH Harbor		PLYMOLITH Harbor	
057-014A-000-021A-300	057-014A-000-021A-300-DCR3A	2702	MA DEGE	PLYMOUTH	SEP 1970	Proposed Shore Protection, Concrete Seawall - North Westerly of T-Wharf		North Westerly of T-Wharf	
057-014A-000-021A-400	057-014A-000-021A-400-DCR4B	2702	MA DEGE	PLYMOUTH	SEP 1970	Proposed Shore Protection, Concrete Seawall - North Westerly of T-Wharf	-		
057-014A-000-021A-500	057-014A-006-021A-500-DCR5A	2702	MA DEGE	РLYMOUTH	SEP 1970	Proposed Shore Protection, Concrete Seawall - North Westerly of T-Wharf		North Westerly of T-Wharf	
057-017-000-181-100	057-017-000-161-100-DCR1A	1050	MA DPW	РСУМОИТН	JUL 1948	Proposed Bank Protection & Pavement, Water Street	- S	Water Street	
057-020-000-182-100	057-020-000-182-100-DCR1A	883	MA DPW	РІУМОИТН	Nov 1845	Concrete Retaining Wall, PLYMOUTH State Pier	-	PLYMOUTH State Pier	
057-039-000-010B-100	057-039-000-010B-100-DCR1A	929	MA DPW	РГУМОПТН	MAR 1940	Proposed Shore Protection, Warrens Cove	-	Warrens Cove - Hotel Planim	
057-038-000-010B-100	057-039-000-010B-100-DCR1B	989	MA DPW	РГУМОИТН	SEP 1940	Proposed Shore Protection, Warrens Cove	- N	Warnens Cove - Hotel Pilorim	
057-039-000-010B-100	057-039-000-010B-100-DCR1C	946	MA DPW	PLYMOUTH	JUL 1946	Proposed Repairs to Sea Wall, Warren Cove	-	Warrens Cove	
057-039-000-010B-100	057-039-000-010B-100-DCR1D	1438	MA DPW	РСУМОИТН	OCT 1954	Proposed Shore Protection, Concrete Seawall, Warren Cove - Northerly of Bath House at Long Beach	- 9	Long Beach	
057-039-000-010B-100	057-039-000-010B-100-DCR1E	1861	MA DPW	PLYMOUTH	SEP 1858	Proposed Shore Protection, Concrete Seawall and Stone Apron - Long Beach	- 3	Long Beach	
057-039-000-010B-100	057-039-000-0108-100-DCR1F	1803	MA DPW	Р.ГУМОПТН	SEP 1957	Proposed Shore Protection, Concrete Seawall and Stone Apron - Long Beach	-	Long Beach	
057-039-000-010B-100	057-039-000-010B-100-DCR1G	2033	MA DPW	РГУМОЛТН	MAY 1859	Proposed Shore Protection, Concrete Seawall and Stone Apron - Long Beach	<u>ē</u> 	Long Beach - South of the Bath House	
057-039-000-010B-100	057-039-000-010B-100-DCR1H	2635	MA DPW	РГУМОГТН	MAR 1968	Proposed Shore Protection, Stone Groin Construction, Warren Cove, North of Bath House	- Wa	Warren Cove. North of Bath House	
057-039-000-010B-100	057-03B-000-010B-100-DCR11	1237	MA DPW	PLYMOUTH	MAY 1952	Proposed Shore Protection, Eel River		Eel River, Near Public Bath House	
057-039-000-010B-100	057-039-000-010B-100-DCR1J	2478	MA DPW	Р.ГУМОИТН	APR 1985	Proposed Shore Protection, Concrete Seawall and Stone Apron - Long Beach	<u>ē</u> -	Long Beach in front of Bath House	
057-041-000-029-100	057-041-000-028-100-DCR1A	946	MA DPW	PLYMOUTH	JUL 1846	Proposed Repairs to Sea Wall, Warren Cove	- wa	Warrens Cove	
057-041-000-029-100	057-041-000-028-100-DCR1B	341	MA DPW	РЕУМОСТН	OCT 1932	Proposed Rip Rap Jettles & Repairs to Sea Wall, Warrens Cove, Plymouth		Warrens Cove	South of Eel Kiver
057-041-000-028-100	057-041-000-029-100-DCR1C	658	MA DPW	РLYMOUTH	MAR 1940	Proposed Shore Protection, Warrens Cove	1 Wa	Warrens Cove - Hotel Pilonim	
057-041-000-029-100	057-041-000-028-100-DCR1D	989	MA DPW	РГУМОЛТН	SEP 1840	Proposed Shore Protection, Warrens Cove	1 War	Warrens Cove - Hotel Plignim	
057-041-000-029-100	057-041-000-029-100-DCR1E	1988	MA DPW	РІУМОШТН	OCT 1858	Proposed Shore Protection, Stone Mound & Groin Construction - Warren Cove	1 War	Wалтел Cove	
057-041-000-029-100	057-041-000-029-100-DCR1F	2096	MA DPW	РГҮМОЛТН	FEB 1960	Proposed Shore Protection, Stone Mound & Rip Rap Slope -	1 War		
057-041-000-029-100	057-041-000-029-100-DCR1G	2333	MA DPW	РСУМООТН	MAR 1964	Proposed Share Protection, Stane Maund Protection - Warren Cove	3 War	Warren Cove	
057-044-000-025-100	057-044-000-025-100-DCR1A	2036	MA DPW	РLYМОUTH	JUN 1857	Proposed Shore Protection, Stone Revelment - Pricilia Beach	1 Prici	Pricilla Beach, Just north of stairs	

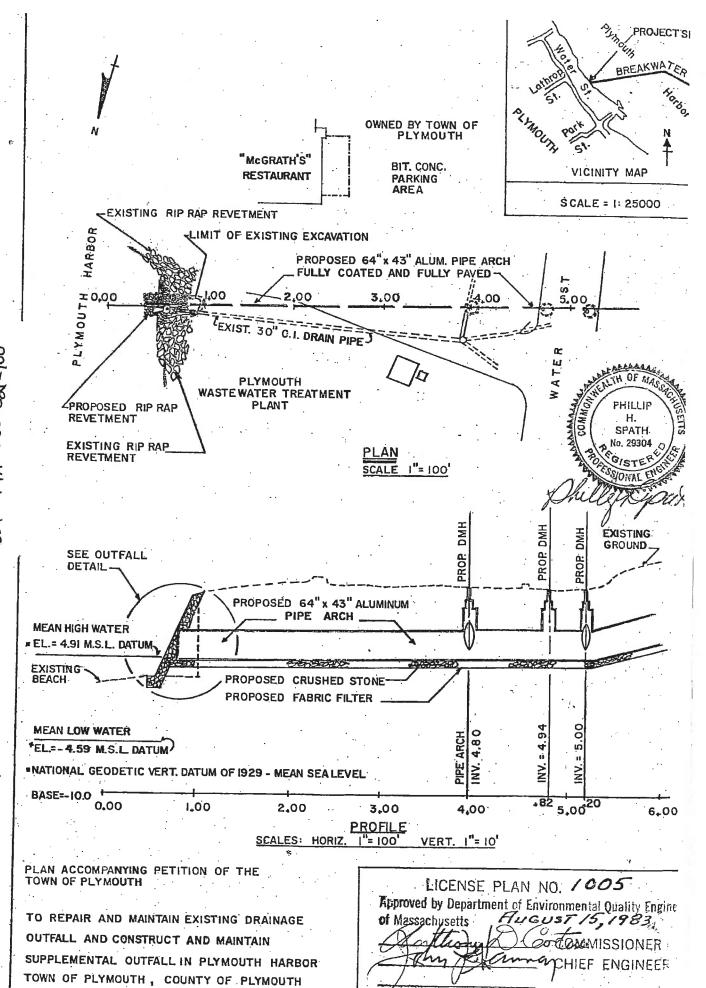
TOWN: PLYMOUTH SOURCE: MA-DCR - OFFICE OF WATERWAYS LOCATION: MA-DCR - OFFICE OF WATERWAYS, HINGHAM, MA DATE OF RESEARCH: AUGUST 2006

Seven Stone Jetties			Revetment	Stone Jetties								3 Jettles		
White Horse Beach	White Horse Beach	White Horse Beach	Manomet	Monomet Bluffs - South of Strand Ave.	South of Contract #1475	Manomet Bluffs - Vicinity of Old Beach Road	Massasoit Shores	Indian Hill	Etisville, Vicinity of Black Pond	Ellsville	Manomet Bluffs - Vicinity of Old Beach Road	Look Out Point	Eliisville Harbor	Elisvile Harbor
-	6	60	-	-	-	9	-	-	1	-	6	2	-	-
Proposed Stone Jettles, White Horse Beach	Proposed Shore Protection, South Mound Barlett Brook - White Horse Beach	Proposed Shore Protection, South Mound Barlett Brook - White Horse Beach	Proposed Shore Protection, Manamet	Proposed Share Protection, Groin Construction, Manamet Bluffs	Proposed Shore Protection, Groin Construction, Manamet Bluffs - Southerly of Bradford Ave.	Proposed Share Protection, Groin Construction, Manomet Bluffs - Vicinity of Old Beach Road	Proposed Shore Protection, Groin Construction, Massasoit Shores	Proposed Shore Protection, Stane Mound Protection, Indian	Proposed Shore Protection, Stone Mound - Ellisville, Vicinity of Black Pond	Proposed Shore Protection, Stone Mound Protection - Ellisville	Proposed Shore Protection, Groin Construction, Manomet Bluffs - Vicinity of Old Beach Road	Proposed Stone Jettles, Look Out Point	Proposed Excavation & Stone Jetty, Ellisville Harbor	Proposed Harbor Improvement and Shore Protection - Excavating Stone Jetty - Ellisville Harbor
JAN 1852	DEC 1853	DEC 1953	AUG 1852	MAR 1955	JUN 1855	DEC 1953	AUG 1858	JUL 1974	DEC 1959	SEP 1964	DEC 1853	DEC 1851	DEC 1939	APR 1960
PLYMOUTH	РЕУМООТН	РLYMOUTH	PLYMOUTH	РLYMOUTH	РГУМОЛТН	РLYMOUTH	РСУМООТН	РЕУМОПТН	РГУМОПТН	РLYMOUTH	РГҮМОГТН	РГУМОИТН	РСҮМОИТН	РІУМОПТН
MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DEGE	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW	MA DPW
1184	2006	2008	1263	1475	1513	2006	1654	2796	2087	2452	2006	1198	639	2105
057-045A-000-100-200-DCR1A	057-045B-000-14A-100-DCR1A	057-045B-000-14A-200-DCR1B	057-046-000-003-100-DCR1A	057-048-000-197-100-DCR1A	057-048-000-187-100-DCR1B	057-048-000-187-100-DCR1C	057-048-000-197-100-DCR1D	057-050-000-008-100-DCR1A	057-052-000-025-100-DCR1A	057-052-000-025-100-DCR1B	057-052-000-025-200-DCR1C	057-053-021-019-100-DCR1A	057-053-021-058-100-DCR1A	057-053-021-058-100-DCR1B
057-045A-000-100-200	057-045B-000-14A-100	057-045B-000-14A-200	057-046-000-003-100	057-048-000-197-100	057-048-000-197-100	057-048-000-197-100	057-048-000-197-100	057-050-000-006-100	057-052-000-025-100	057-052-000-025-100	057-052-000-025-200	057-053-021-019-100	057-053-021-059-100	057-053-021-059-100

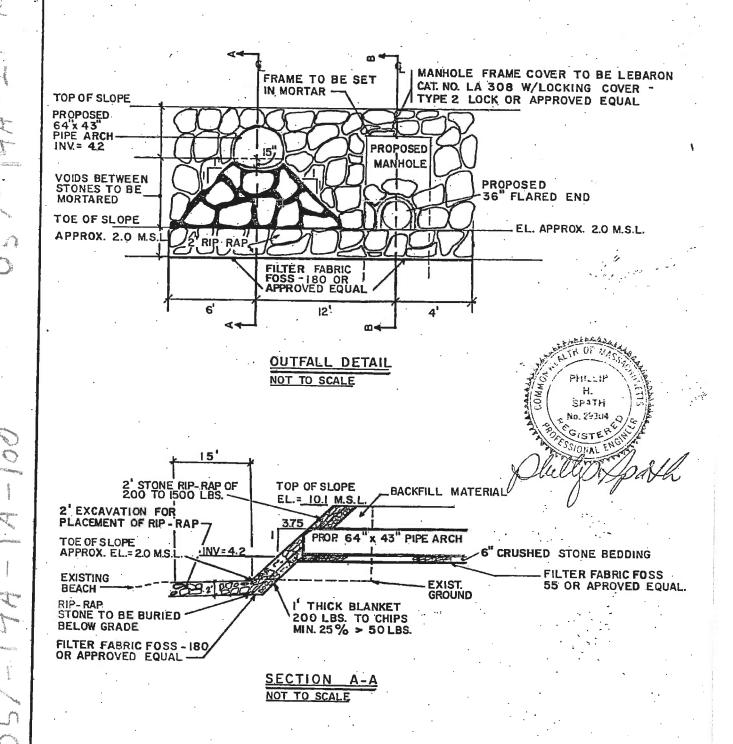
TOWN: PLYMOUTH SOURCE: MA-DEP CHAPTER 91 LICENSE LOCATION: MA-DEP MAIN OFFICE, BOSTON, MA DATE OF RESEARCH: AUGUST 2006

		Contract/							
BCE Structure No	Document No	Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
057-014A-000-014-100	057-014A-000-014-100-LIC1A	2148	DEP CH.91	PLYMOUTH	NOV 15 1938	PLAN ACCOMPANYING PETITION OF THE TOWN OF PLYMOUTH TO REMOVE WOODEN BULKHEAD IN PLYMOUTH HARBOR - PLYMOUTH	1	ALONG EXISTING STONE WALL BETWEEN WATER STREET AND FISH WHARF	REMOVE TIMBER BULKHEAD
057-014A-000-01A-100	057-014A-000-01A-100-LIC1A	1005	DEP CH.91	PLYMOUTH	AUG 15 1983	LAN ACCOMPANYING PETITION OF THE TOWN OF PLEYMOUTH TO REPAIR AND MAINTAIN EXISTING DRAINAGE OUTFALL AND CONSTRUCT AND MAINTAIN SUPPLEMENTIAL OUTFALL IN PLYMOUTH HARBOR, TOWN OF PLYMOUTH, COUNTY OF PLYMOUTH	ဇ	WATER STREET, JUST SOUTHEAST OF LATHROP STREET	DRAINAGE OUTFALL INTERACTION WITH STONE REVETMENT
057-014A-000-021-100	057-014A-000-021-100-LIC1A	1005	DEP CH.91	PLYMOUTH	AUG 15 1983	LAN ACCOMPANYING PETITION OF THE TOWN OF PLET LOWN OF PLET LOWN OF PLET LAND FAIRTAIN EXISTING DRAINGAGE OUTFALL AND CONSTRUCT AND MAINTAIN SUPPLEMENTAL OUTFALL IN PLYMOUTH HARBOR, TOWN OF PLYMOUTH, COLINITY OF PLYMOUTH	3	WATER STREET, JUST SOUTHEAST OF LATHROP STREET	DRAINAGE OUTFALL INTERACTION WITH STONE REVETMENT
057-017-000-161-100	057-017-000-181-100-LIC1A	1722	DEP CH.91	РЬУМОИТН	SEP 1935	PLAN ACCOMPANYING PETITION OF TOWN OF PLYMOUTH TO BUILD A STONE WALL AND FILL, WATER STREET, TOWN OF PLYMOUTH	-	WATER STREET BETWEEN SOUTH PARK AVE AND BREWSTER STREET	NEW SEAWALL
057-017-000-163-100	057-017-000-163-100-LIC1A	1722	DEP CH.91	РСУМООТН	SEP 1935	PLAN ACCOMPANYING PETITION OF TOWN OF PLYMOUTH TO BUILD A STONE WALL AND FILL, WATER STREET, TOWN OF PLYMOUTH	+	WATER STREET BETWEEN SOUTH PARK AVE AND BREWSTER STREET	NEW SEAWALL
057-023-000-026-100	057-023-000-026-100-LIC1A	7004	DEP CH.91	РІУМООТН	JAN 15 1998	PLANS ACCOMPANYING PETITION OF TOWN OF PLANS WOUTH, DEPARTMENT OF PUBLIC WORKS, PARKS DIVISION, REHABILITATION OF STEPHEN'S FIELD SEAWALL AND APPURTENANT WORK, PLYMOUTH HARBOR, PLYMOUTH, MA	9	STEPHENS FIELD	REPAIR STEPHENS FIELD REVETMENT
057-041-000-029-100	057-041-000-029-100-LIC1A	2254	DEP CH.91	РГУМОСТН	JAN 30 1890	PLANS ACCOMPANYING PETITION OF MASSACHUSETTS DIVISION OF EWITSON/BINTAL MANAGEMENT, DIVISION OF WATERWAYS, REPAIR OF WARREN COVE REVETMENT AND APPURTENANT WORK	2	WARREN COVE	REPAIR WARREN COVE REVETMENT
057-048-000-003-100	057-046-000-003-100-LIC1A	8035	DEP CH.91	РЬУМОЛТН	JUNE 15 1999	PLANS ACCOMPANYING PETITION OF TOWN OF PLYMOUTH, MA FOR BOAT HOUSE LANE BOAT RAMP IMPROVEMENTS	3	BOAT HOUSE LANE	1ST SHEET MISSING
057-050-023-001-100	057-050-023-001-100-LIC1A	612	DEP CH.91	РLYMOUTH	NOV 28 1979	PLAN ACCOMPANYING PETITION OF TOWN OF PLYMOUTH TO CONSTRUCT AND MAINTAIN A STORM TOWN OUTFALL FOR SHIP POND IN CAPE COD BAY, TOWN OF PLYMOUTH	-	TERMINUS OF SHORE DRIVE ADJACENT TO SHIP'S POND	CONSTRUCT AND MAINTAIN JETTY, GROIN, RIP-RAP
057-059-000-010B-100	057-059-000-010B-100-LIC1A	9216	DEP CH.91	РСУМОИТН	FEB 21 2002	PLAN ACCOMPANYING PETITION OF THE TOWN OF PLAN WOUTH FOR CONSTRUCTION AND MAINTAINING A STONE REVETMENT AT 140 AND 150 WARREN AVENUE IN WARRENS COVE, PLYMOUTH BAY	7	140 AND 150 WARREN AVENUE	

RERIGION PUBLIC WORKS COMMISSIONERS PLYMOUTH LAND OF TONIN OF PLANNOUTH PLYMOUTH HARBOR-PLYMOUTH PLAN ACCOMPANYING PETITION OF THE TOWN OF PLYMOUTH TO REMOYE WOODEN BULKHEAD IN A.E.Blackmer Town Engineer NOK 15, 1939 000-NH1-150 001-110-



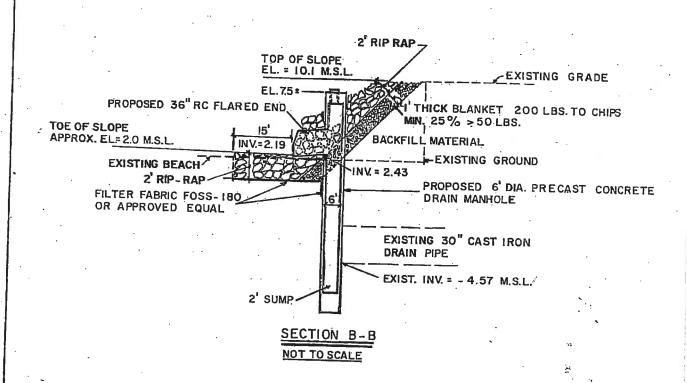
10f3



LICENSE PLAN NO. 1005

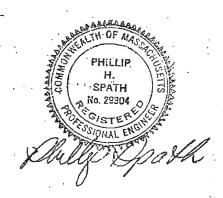
Approved by Department of Environmental Quality Engineering AUGUST 15, 1983

83W-054 SHEET 2 OF 3



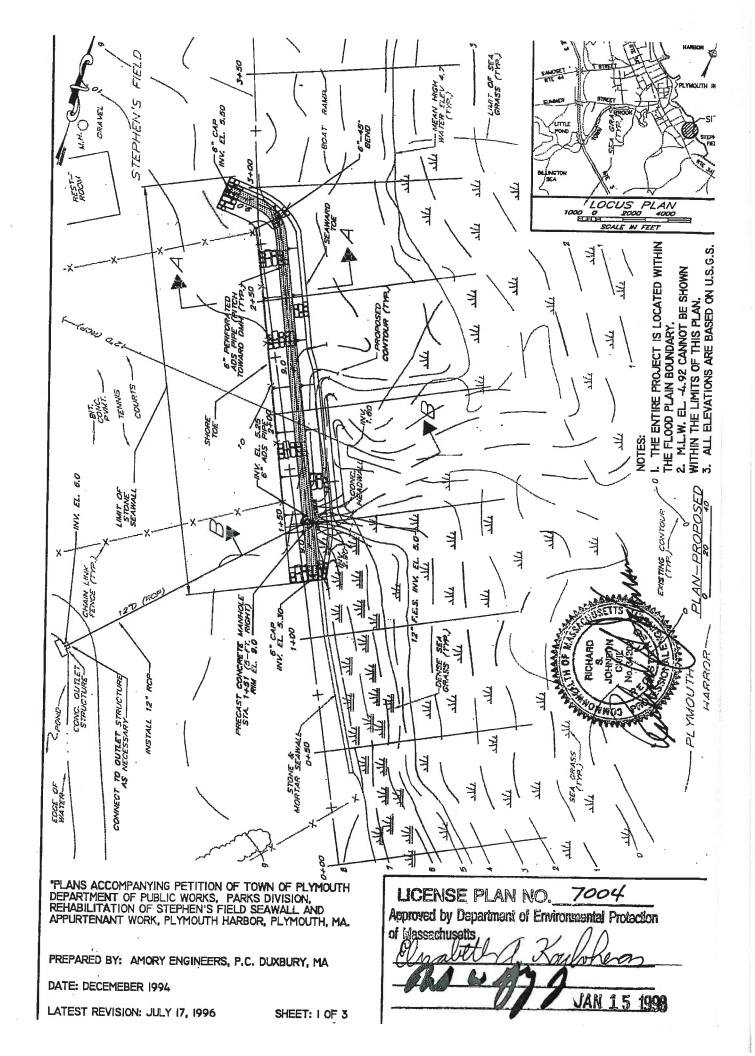
LICENSE PLAN NO. 1005

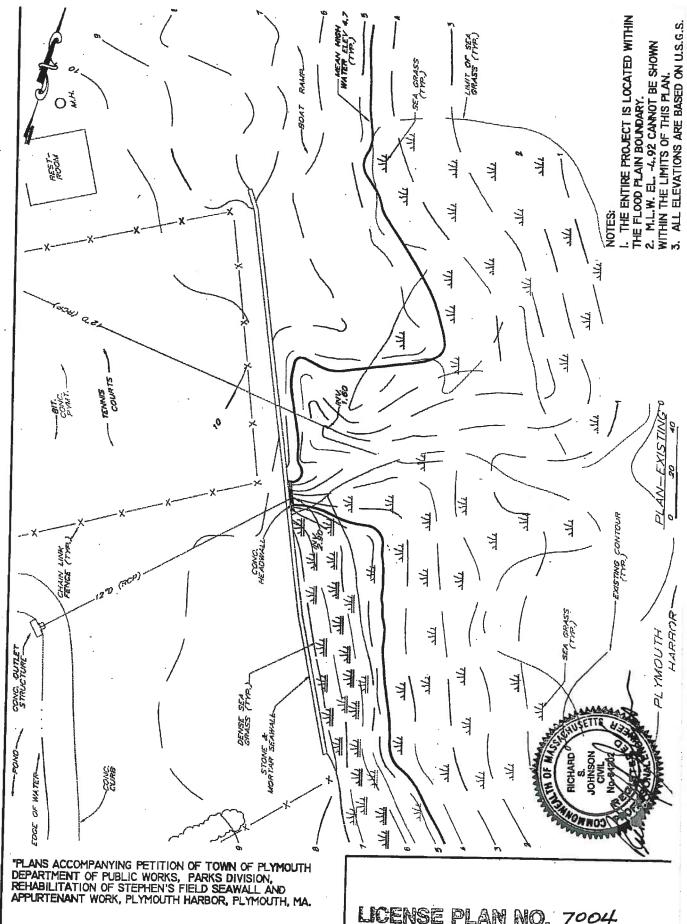
Approved by Department of Environmental Quality Engineering
HUGUST 15,1983



83w-054 SHEET 3 OF 3

APPROVED BY DEPARTMENT OF PUBLIC WORKS De USGNO CHAM NO 245 34145 Ĺ 19/-000-110-150 057-017-000-163-100 TE ASTEMBAG ISMUIS EDUINON 45/3/N O 12040/N 00/-Grass Section walland fill Gas relibertions Co. TO GHA INCH Disons by Theo Brink 57 WATER CHITLON PLAN OF PROPOSED MALLANDFUL PLAN ACCOMPANING PETITION OF 775 THE TOWN OF PLYNOUTH TO GIVE STONE MALL AND MATER ST Jan 2, 1935 PLYNOUTH 50. FARA





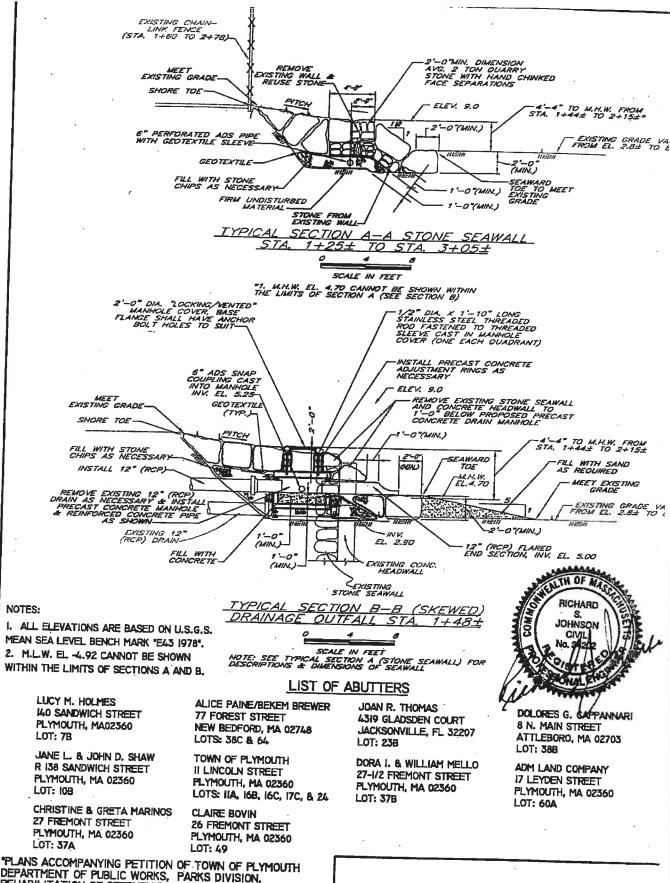
ATEST DEVISION HEV IT 1004

DATE: DECEMEBER 1994

PREPARED BY: AMORY ENGINEERS, P.C. DUXBURY, MA

CHEET-2 OF 3

LICENSE PLAN NO. 7004
Approved by Department of Environmental Protection
Date: JAN 15 1998



DEPARTMENT OF PUBLIC WORKS, PARKS DIVISION, REHABILITATION OF STEPHEN'S FIELD SEAWALL AND APPURTENANT WORK, PLYMOUTH HARBOR, PLYMOUTH, MA.

PREPARED BY: AMORY ENGINEERS, P.C. DUXBURY, MA

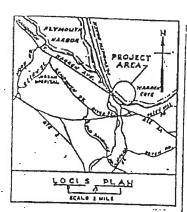
DATE: DECEMEBER 1994

NOTES:

-3-043

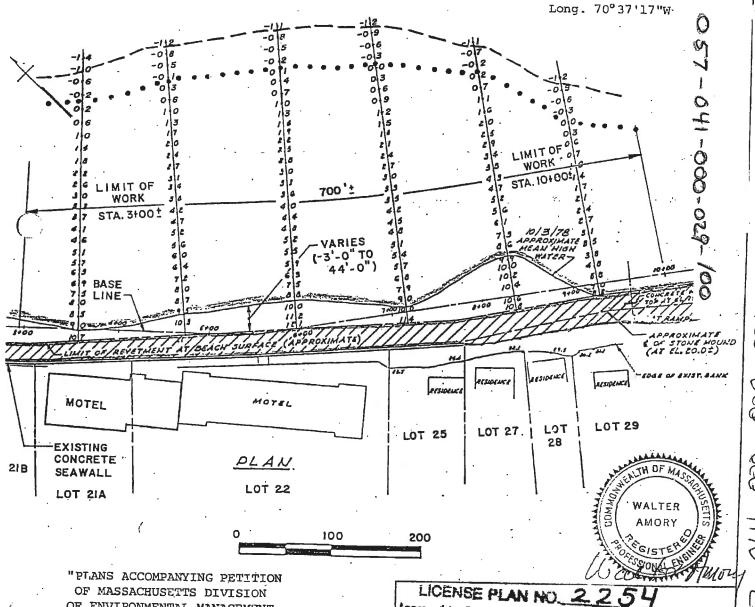
LICENSE PLAN NO. 7004 Approved by Department of Environmental Protection Date: JAN 15 1998

MEAN HIGH WATER SHORELINE MEAN LOW WATER SHORELINE EXTREME LOW WATER SHORELINE PROPERTY LINE EXISTING STONE REVETMENT



FROM: USGS Quad Sheets (Manomet, MA, and Plymouth.

Lat. 41° 56' 28"N



OF ENVIRONMENTAL MANAGEMENT, DIVISION OF WATERWAYS"

pair of Warren Cove Revetment and Appurtenant

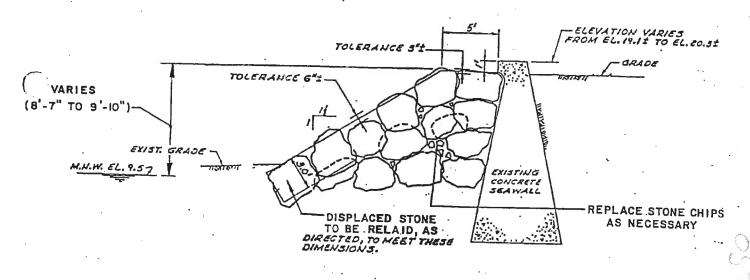
.ymouth Bay .ymouth, MA

epared by Amory Engineers, P.C.

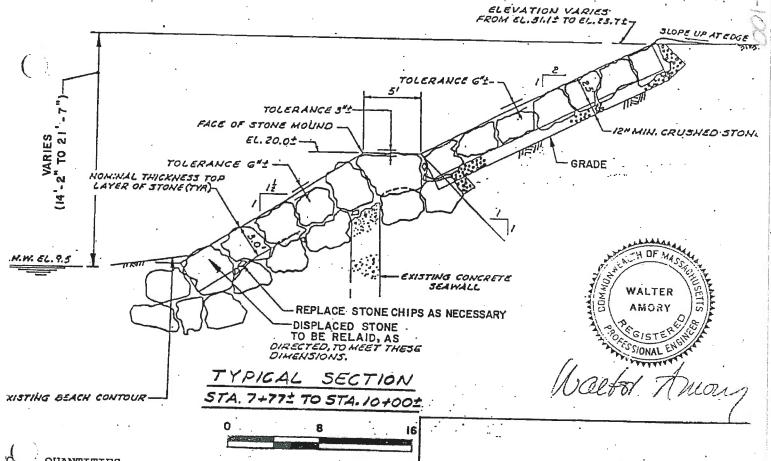
Approved by Department of Environmental Protection

COMMISSIONER SECTION CHIEF

00-09d-00



TYPICAL SECTION STA. 0+00± TO STA.7+77± .16



QUANTITIES

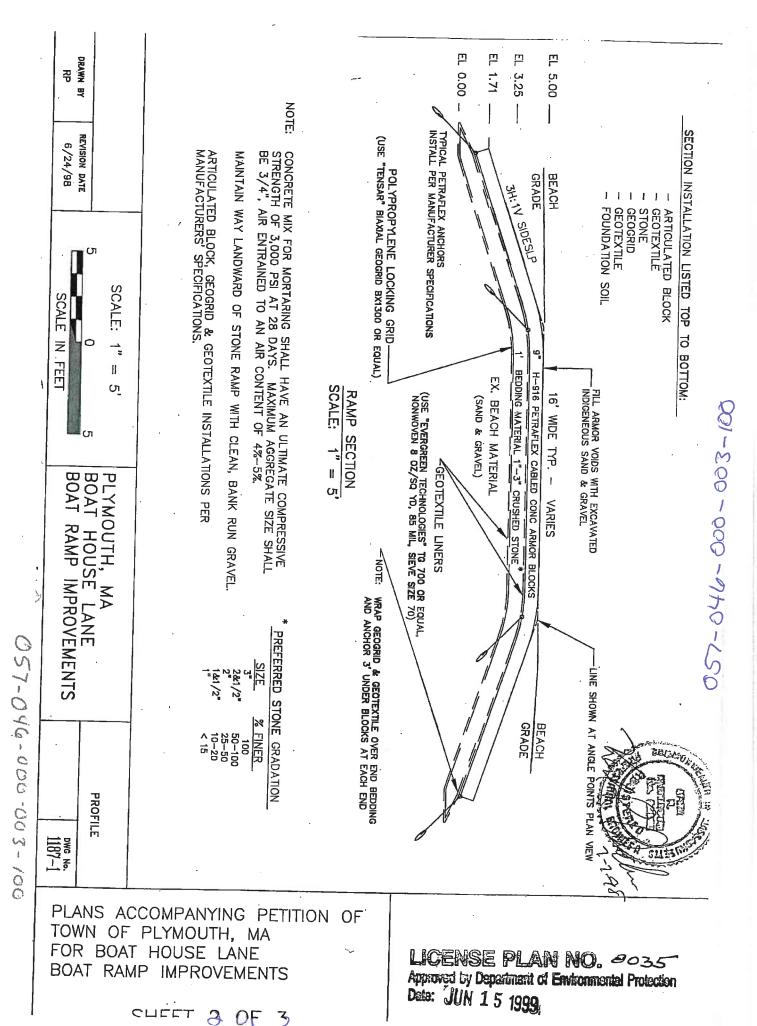
tone chips 149 cu.yd.

repared by Amory Engineers, P.C. ate: 6/12/89 Sheet 2 of 3

LICENSE PLAN NO. 2254

Approved by Department of Environmental Protection

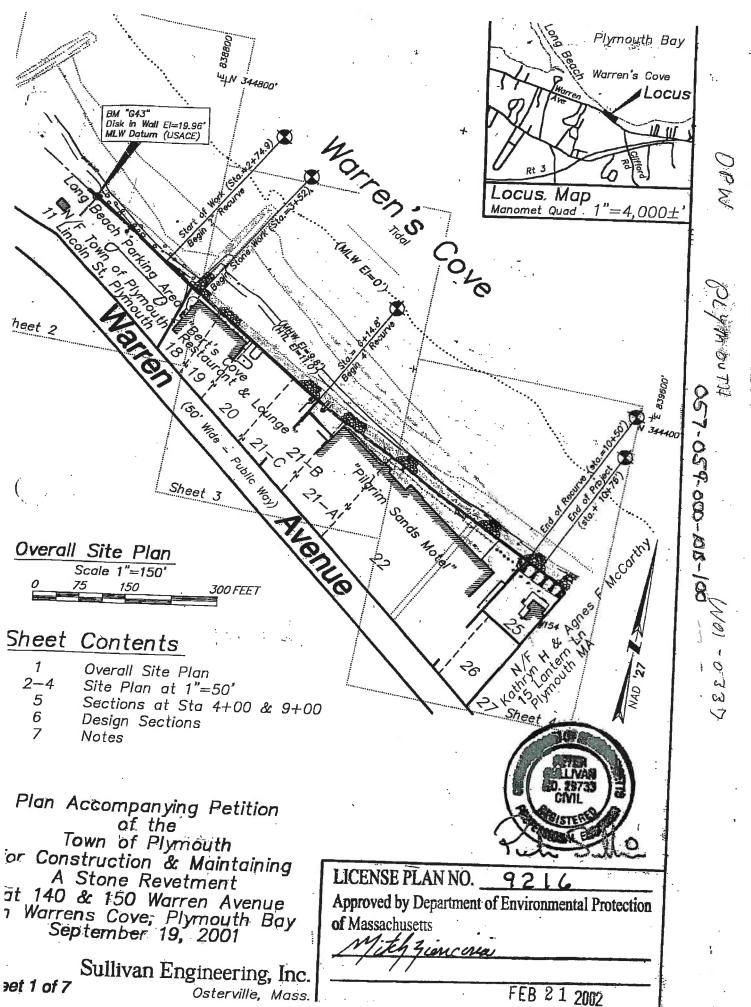
JAN 30 1990 Date:



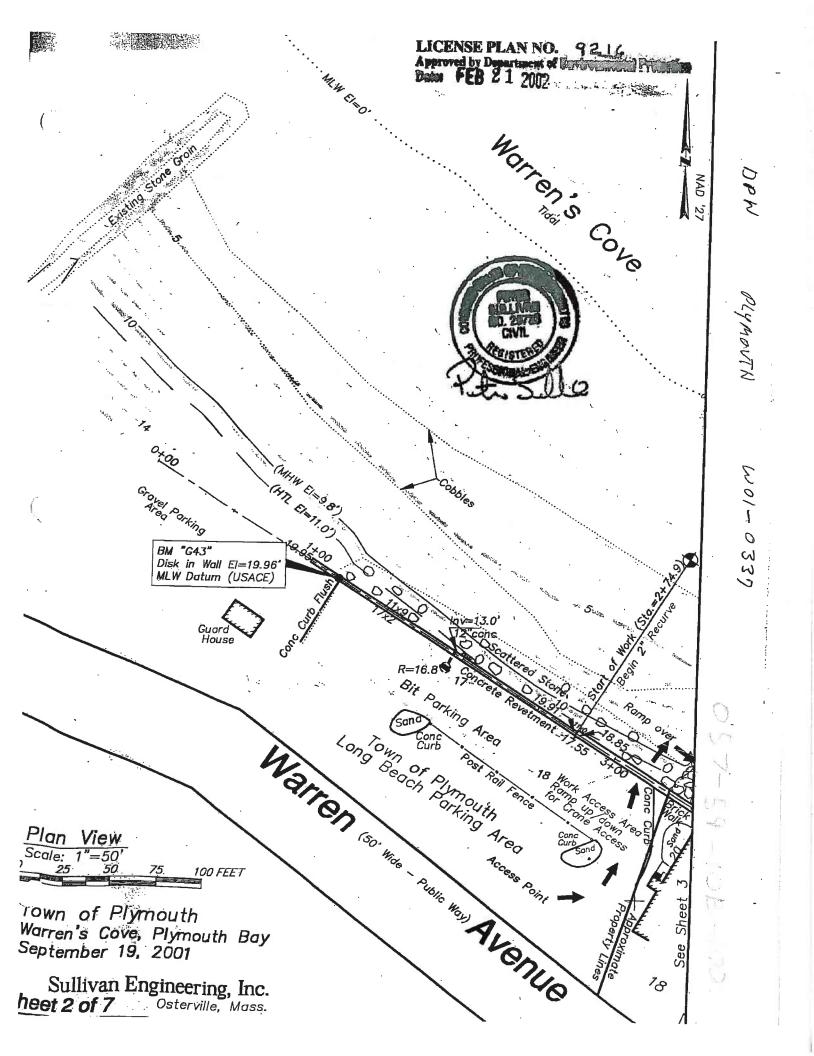
(EAN SEA LEVEL+/-) DRAWN BY EX. BEACH SURFACE-(HIGH WATER+/-) (LOW WATER+/-) RESTORE TO ORIGINAL GRADE REVISION DATE 6/24/98 ELEV 25 ជ 0+50 NI THE STATE OF TH GRADE EXISTING MATERIAL NOTE: RAMP SURFACE STA 0+75 WRAP GEOGRID & GEOTEXTILE OVER FACE STONE 3' UNDER BLOCKS SCALE: 1" = SCALE IN FEET TOE BEDDING MATERIAL 2H: 1V SLP 1+00 H-918 (9") BLOC 30 BTM EX. RAMP/ BANK 1+32 EL 5,6+/-057-46-0-3-100 GEOTEXTILE FABRIC 30 GEOGRID PLYMOUTH, BOAT HOUS 1+50 RAMP IMPROVEMENTS TOP EX. RAMP/ BANK 1+85 EL 16,5+/-DATUM IS USGS 1929 NGVD, MSL. ADJUSTMENT TO MLW IS SHOWN FOR WATERWAYS. NOTE: EXCAVATE APPROXIMATELY 200 CUBIC YARDS OF BEACH SAND FOR INSTALLATION. END PROPOSED RAMP 2+00 PROPOSED PETRAFLEX BOAT RAMP BACKSLOPE PROFILE * H & V SCALE: PROP. GRAVEL GRADE V2 ZONE BASE FLD FEMA (July 1986) 2+50 PLAN VIEW DEXISTING SURFACE P 1" = 30' 25 1187-1 **PLANS ACCOMPANYING PETITION** OF PLYMOUTH, MA BOAT HOUSE LANE LICENSE PLAN NO. 8035

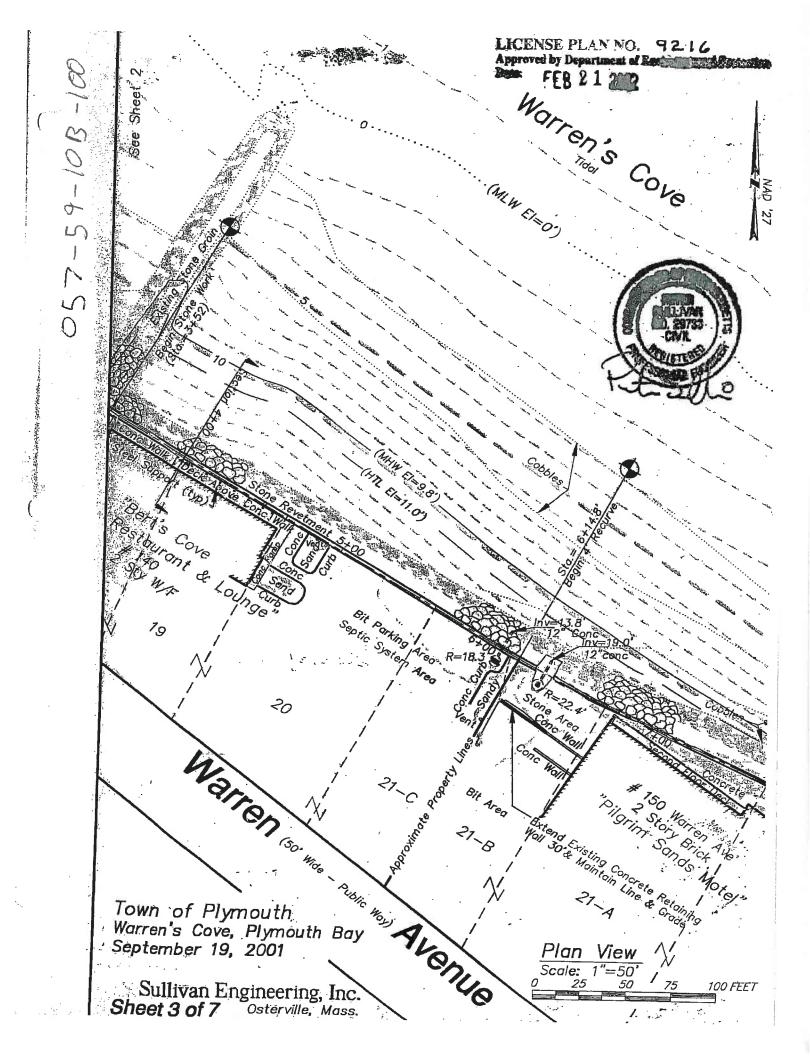
pproved by Department of Environmental Protection **IMPROVEMENTS BOAT RAMP** JUN 15 1999 SHEET 3 OF 3

057-050-033-001-100



001-801-000-600-108

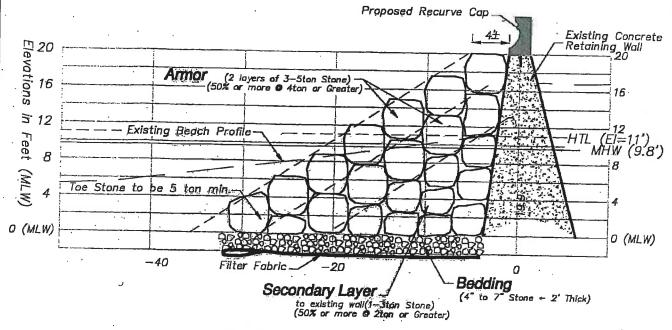




Sheet 5 of 7

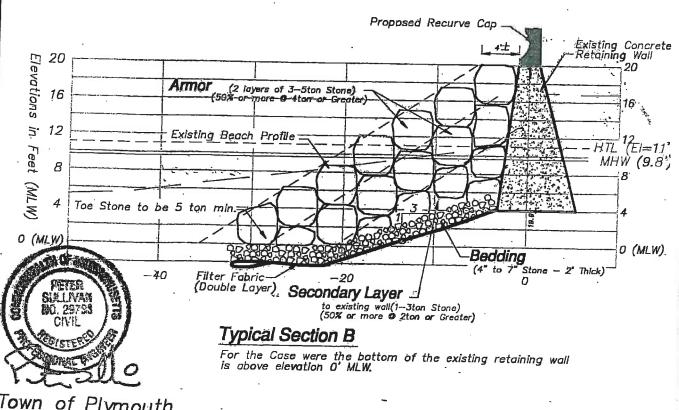
Osterville, Mass.

Approved by Department of Environmental Protect FEB 21



Typical Section A

For the Case were the bottom of the existing retaining wall is at elevation O' MLW.



Town of Plymouth Warren's Cove, Plymouth Bay September 19, 2001 Sullivan Engineering, Inc.

Osterville, Mass. Sheet 6 of 7

Profile View

30. 25% -

THESE !

257-59-10B

General Notes on Specification Requirements for Construction:

1. General.

Each stone will be placed by equipment suitable for lifting, manipulating, and placing stones of the size and shape specified.

Each stone shall be placed with its longest axis perpendicular to the armor slope.

Placing efforts shall insure that each stone is

firmly set and supported by underlying materials and adjacent stones.

Loose stones shall be reset or replaced.

Elevation of the toe stone must be witnessed and confirmed.

2. Armor Stone.

Armor stone should meet the following requirements: Stones with their largest dimension greater than three times the least dimension should be rejected. The stones should have high specific gravity and low absorption. Materials should be able to withstand the design Impact conditions.

3. Secondary Layer:

Stones with their largest dimension greater than three times the least dimension should not make up more than 10 % of the total. All material should have adequate freezing and thawing resistance for the range of anticipated weather conditions.

4. Bedding Layer

Stone should be within the size range specified and the material should be well blended. Stones with the largest dimension greater than three times the least dimension should not constitute more than 10% of the total.

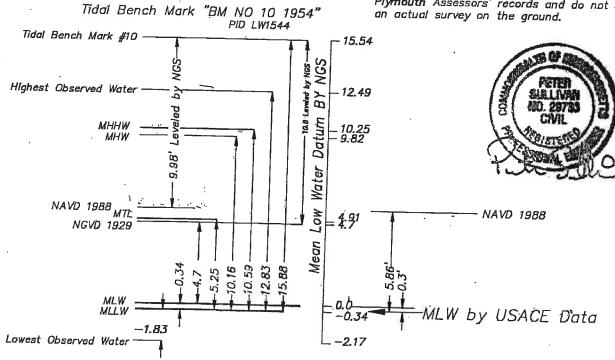
5. Mapping

The topographic information shown was obtained by conventional survey methods on or between January 8, and February 15, 2001. The datum used is Mean Low Water obtained from

the USACE.

The property lines shown are from the Town of Plymouth Assessors' records and do not represen

Datum Relationship:



Town of Plymouth Warren's Cove, Plymouth Bay September 19, 2001 Sullivan Engineering, Inc. Osterville, Mass. Sheet 7 of 7

This relationship is based on the following:

Length of series Time period Tidal Epoch Control Tide Station

3 Months June - August 1990 1960-1978 Boston (844 3970)

LICENSE PLAN NO. Approved by Department of Environmental Branches Date: FEB 21

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

Proceedants	Hondrisea	Timber Bulkhead and Gravel Fill	Includes Pile Cap, Rip Rap & Fill	Timber Buikhead and Gravel Fill	Includes Pile Can. Rin Ran & Fill	III o dan dan dan	render buikhead and Gravel Fijl	Timber Bukhead and Gravel Fill	Includes Stone Mound at Shoreline	Includes Stane Maund at Shoreline	Includes Stone Mound at Shoreline	Stone Seawall and Gravel Fill	Stone Seawall and Gravel Fill	Spring County and Land	Course Coawaii aind Grayer Fill	Curvinadi, Till & Nij Kap			iname				Extension of Grin Field		
Location	Trum Plan and Workers Shaustan	own rise and western shareline	I OWN Pier Adjacent to T-Wharf	Town Pier and Western Shoreline	Town Pier Adjacent to T-Wharf	Town Pier and Western Shoreline	Tour Dice and Western P.	Town the and western Shoreline	Boat Namp at Town Pier	Bhat Rann of Town Dice	and I owil below	10Wn Fier and Western Shoreline	Town Pier and Western Shoreline	Town Pier and Western Shoreline	FIII adjacent to State Pier		Off 3A, East of Eet River	Warren Cove	Northeast of the Intersection of Taylor Road and Manome Drive	Lookout Boint		Elisville Harbor Entrance	Warren Cove	Warren Cove	
Sheets	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,	2	ю -	2	,	,	7 6		, ,	,	2	2	69		-		-	-	. .	-	-	no	
Title	Proposed Fill in Plymouth Harbor	Proposed Town Wharf Construction Plymouth Harbor		Proposed Fill In Plymouth Harbor	Proposed Town Wharf Construction, Plymouth Harbor	Proposed Fill in Plymouth Harbor	Proposed Fill and Buikhead in Plymouth Harbor	Proposed Public Access Facility, Boat Ramp and Parking	Proposed Public Access Facility, Boat Ramp and Parking	Proposed Public Access Facility, Boat Ramp and Parking	Proposed Fill in Plymouth Harbor		Proposed Fill in Plymouth Harbor	Proposed Fill In Plymouth Harbor	Proposed Seawail Plymouth Harbor	Proposed Stone Gmin Warran Cove	Town of Plymouth for Construction and Marie 1	Revelment at 140 &150 Warren Ave	Proposed Stone jettles in Cape Code Bay, Manomet Polnt	Proposed Stane Jetties, Lookout Point	Proposed Stone Jetty. Ellisville Harbor	Included the second sec	Proposed Stone Groln, Plymouth Beach	Town of Plymouth for Construction and Maintaining Stone Revetment at 140 & 150 Warren Ave	
Date	JUN 1935	FEB 1859	1111 4005	CCR LNOC	FEB 1859	JUN 1835	SEP 1852	OCT 1974	OCT 1974	OCT 1974	JUN 1835	141.1	JUN 1835	JUN 1835	JUL 1854	OCT 1956		SEP 2001		JAN 1952	JUN 160	_	A-K 1808	SEP 2001	4000
Municipality	РЕУМОЛТН	РГУМОПТН	E IONA		РГУМОЛТН	РLYМОUTH	Р.ГУМОСТН	PLYMOUTH	РГУМОПТН	РLYMOUTH	РГУМОПТН	E ONA		PLYMOUTH	РГУМОГЛН	Р.ГУМОПТН	E	L DOWN	РСУМОПТН	РГУМОИТН	PLYMOUTH	E CON		РГУМОИТН	PLYMOUTH
Entity	USACE	MADPW	USACE		MADPW	USACE	USACE	USACE	USACE	USACE	USACE	USACE	COUNT	USACE	MADPW	MADPW	TOWN		MADPW	MADPW	MADPW	MADPW		TOWN	USACE
Contract/ Drawing Number	Reel 335 Frame 0525	NEDNP 59-112	Reel	U525	NEDNP 59-112	Reel 335 Frame 0525	NEINP 52-203	CENED-OR-R-22 19100109 MA-	CENED-OR-R-22 19100109 MA-	CENED-OR-R-22 19100109 MA- PLYM-75-81	Reel 335 Frame 0525	Reel 335 Frame	0525	0525 0525	NEDNP 54- 198Reel 335 Frame-0180	NEDNP 56-287	CENAE-R-	200102744	Frame 623	NEDNP 52-25	NEDNP 60-265	NEDOD 69-133	OENARD	200102744	NEDNP 53-188
Document No	057-014A-000-007-100-COE1A	057-014A-000-007-100-COE1B	057-014A-000-010A-100-COE1A		03/-014A-004-010A-100-COE1B	057-014A-000-014-100-COE1A	057-014A-000-014-100-COE1B	057-014A-000-021A-300-COE3A	057-014A-000-021A-400-COE4A	057-014A-000-021A-500-COE5A	057-017-000-161-100-COE1A	057-017-000-163-100-COE1A	\neg	057-020-000-042-100-COE1A	057-020-000-182-100-COE1A	057-041-000-028-100-COE1A	057-041-000-029-100-COE1B		057-046-000-003-100-COE1A	057-053-021-019-100-COE1A	057-053-021-059-100-COE1A	057-059-000-10B-100-COE1A	+	COV-USH-UUU-10B-100-COE1B	057-37A-000-156-100-COE1A N
BCE Structure No	057-014A-000-007-100	057-014A-000-007-100	057-014A-000-010A-100	057-0144-000-0104-100	-	057-014A-000-014-100	057-014A-000-014-100	057-014A-000-021A-300	057-014A-000-021A-400	057-014A-000-021A-500	057-017-000-181-100	057-017-000-183-100		U5/-020-000-042-100	057-020-000-182-100	057-041-000-029-100	057-041-000-029-100	╁	057-046-000-003-100	057-053-021-018-100	057-053-021-059-100	057-059-000-0108-100	200 000 000 000 000	+	057-37A-000-156-100 0

TOWN OF PLYMOUTH PROPOSED FILL IN PLYMOUTH HARBOR AT PLYMOUTH MASS. Plan 1 - 100 BY THE A.E. Blockmer Town Engineer 1935 APPLICATION June 254 Section 6. Solf to foot stowning of Stope DATUM MEAN LOW WATER Section A. dridiy buitsing

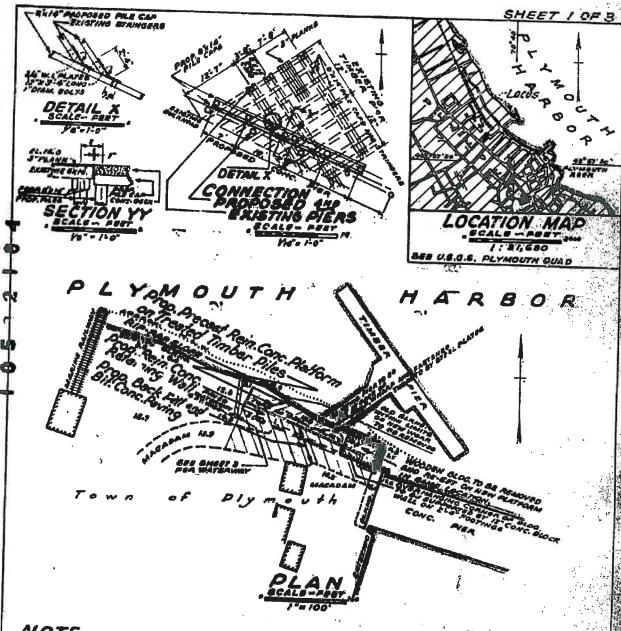
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AND REFER OF PLANE OF MEAN LOW
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SE IN ACCORDANCE WITH CURRENT STANDARD
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PROPOSED

TOWN WHARF CONSTRUCTION

PLY MOUTH HARBOR

PLY MOUTH - MASS:

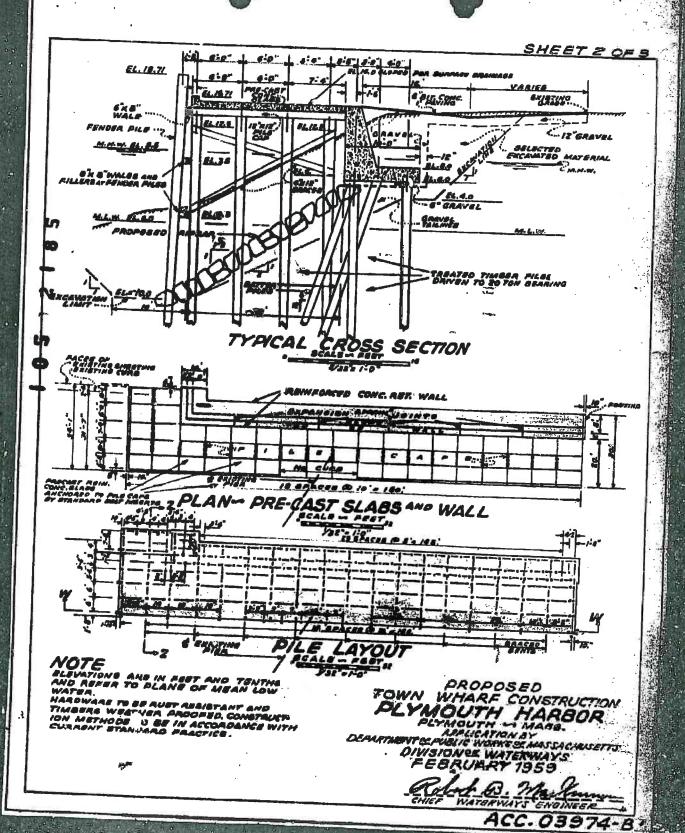
DEPMITMENT PUBLIC WORKS - MASSICAUSETTS

DIVISION OF WATERWAYS

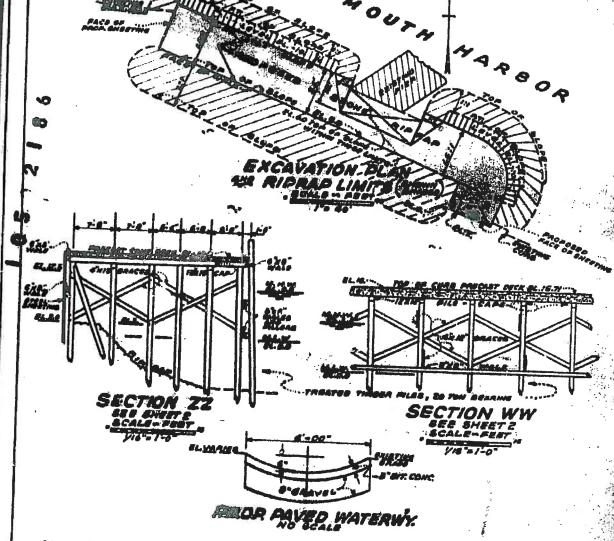
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GHAL-B. Ma. L.

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SHEET 3 OF 3



NOTE

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HARDWARE TO THE RUAT REGISTRAT AND TIMBERS WEST-NEA PRODESO.CONSTRUCTS ION METHODS TO BE IN ACCORDANCE WITH CURRENT STANDARD PRACTICE.

PROPOSED

FOWN WHARF CONSTRUCTION

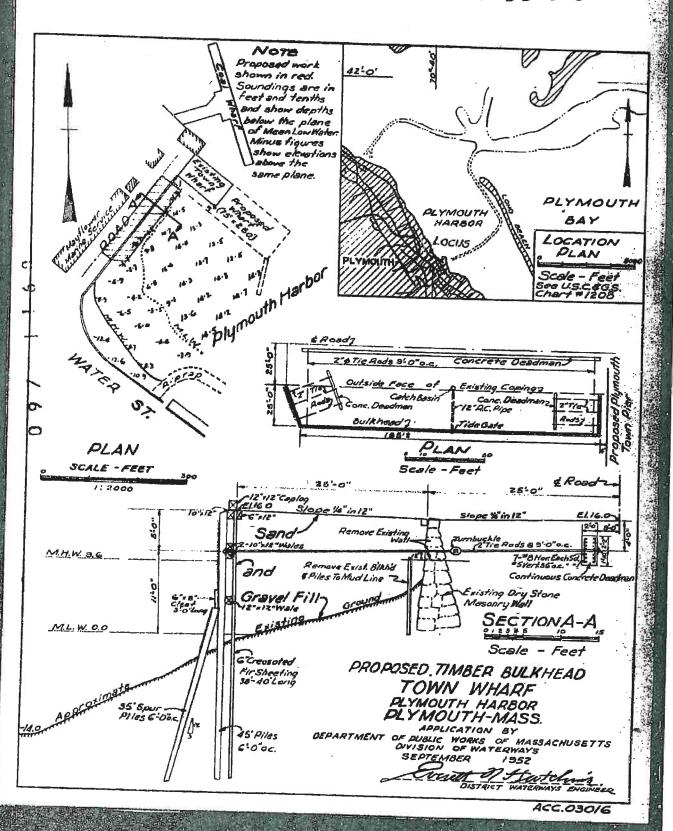
PLYMOUTH HARBOR

PLYMOUTH MARS. MAGS.

DEMARKANTOLATION BY
DIVISION OF WATERWAYS
FEBRUARY 1959

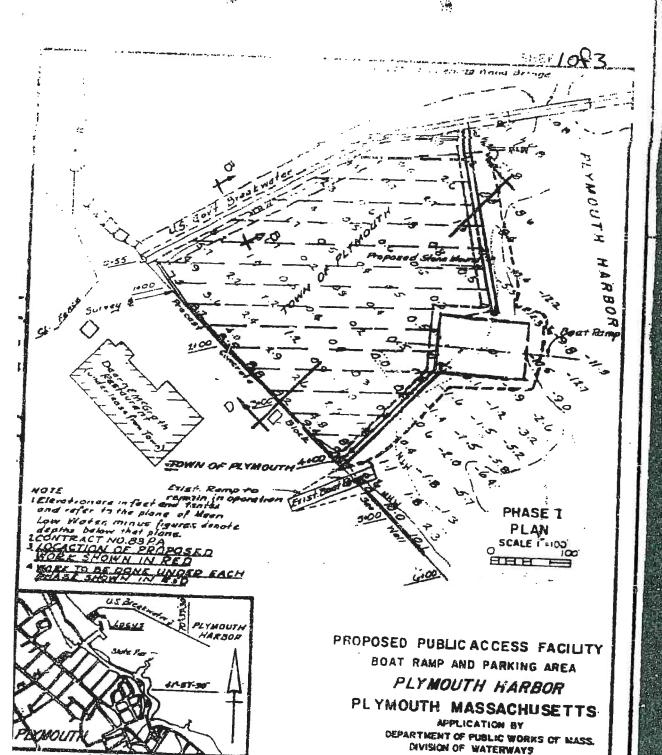
Gold B. Machinger

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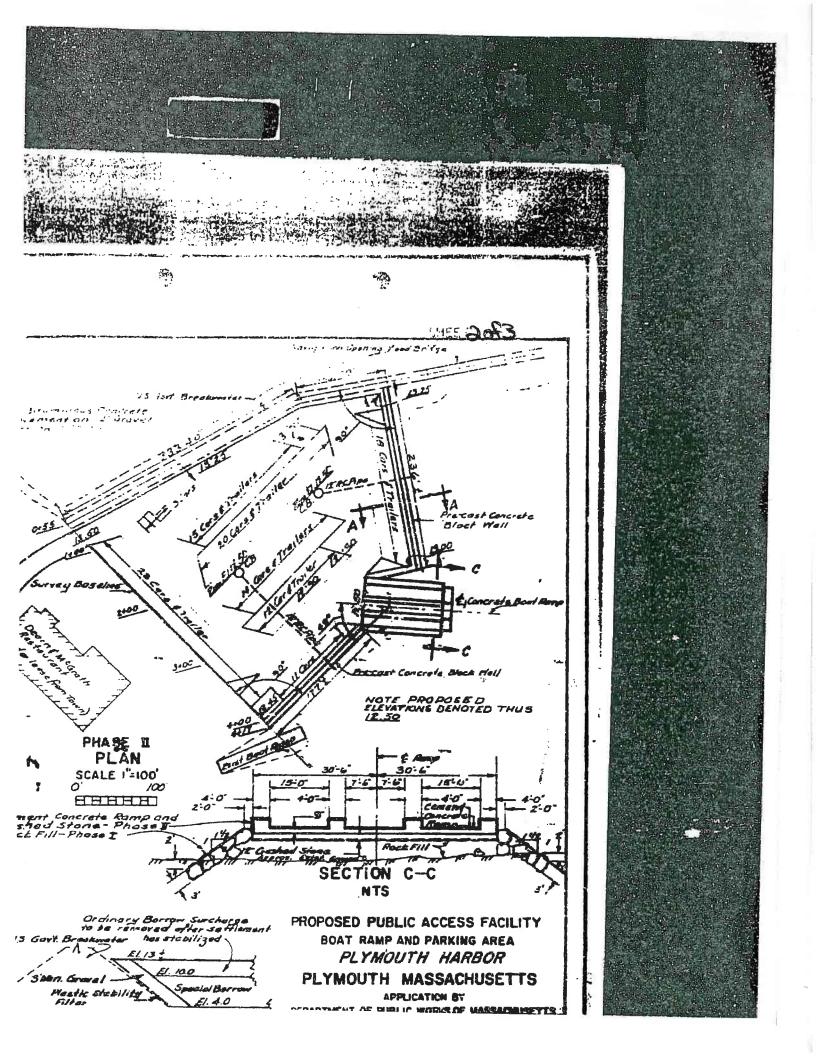


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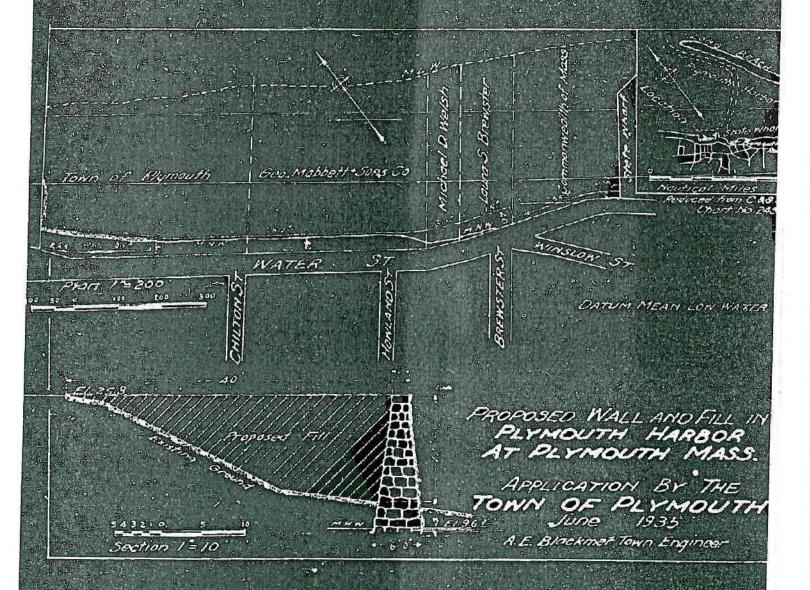


APTARED 1074



SHEET 3 of Surcharge of Granuty Stone Mound to be proced under Phose Fi.II.D E 15 MHW. 11/2 000 Plantic Stability Filter SECTION P.-A SCALE ' '=10' (PHASEII) SULVET BORRING ocest Cament Concrete Black Surcherge of Ordinary Berrow to be compred ofter eart terment has stabilized Ordinary Borra El 10.03 0.2 Erist Stone Hound 0180 Special Borrow 51.4.07 Stana Fill MAN AND STOP W 5.0 DEC SECTION D-D SCALE HORIZ. I = 100' VERT. 1"=10' RAMP PROFILE (PHASE I) Conorado PROPOSED PUBLIC ACCESS FACILITY 0720 BITUMINOUS BOAT RAMP AND PARKING AREA PLYMOUTH HARBOR PLYMOUTH MASSACHUSETTS APPLICATION BY 0100 DEPARTMENT OF PUBLIC WORKS OF WASSACHUSETTS DIVISION OF WATERWAYS OCTOBER 1974 ACTING DEPUTY CHIEF ENGINEER-WATERWAYS

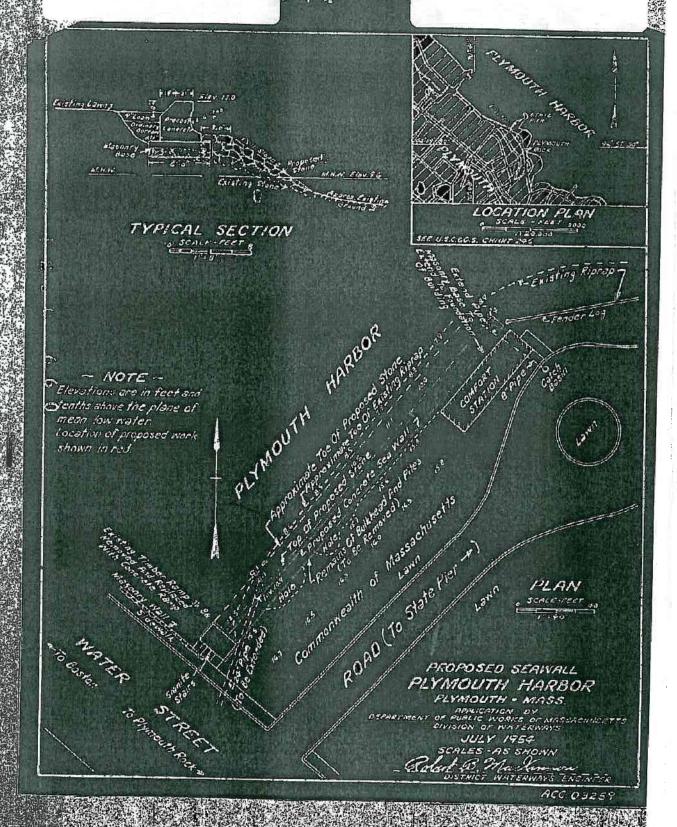
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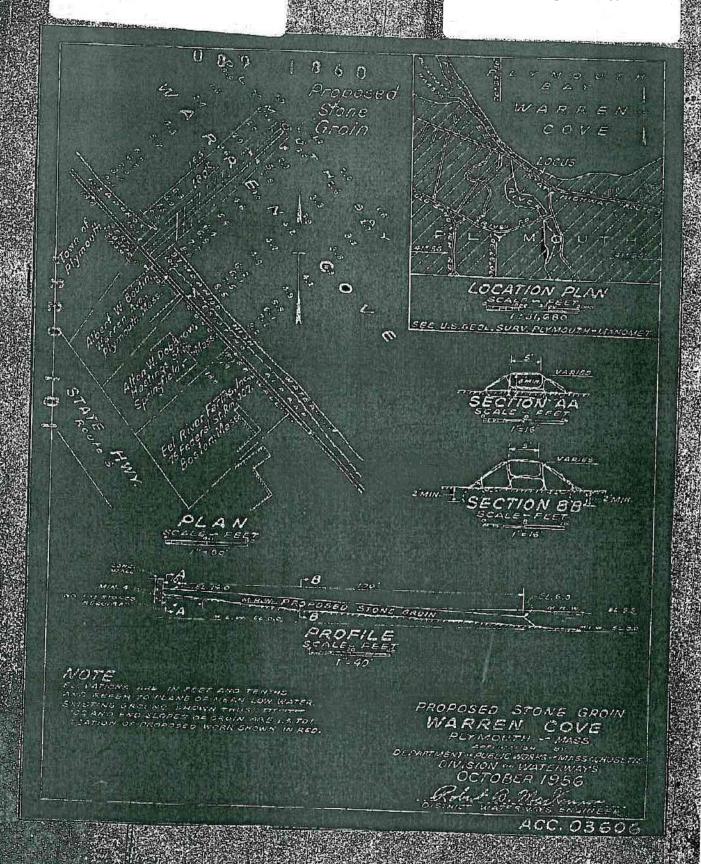


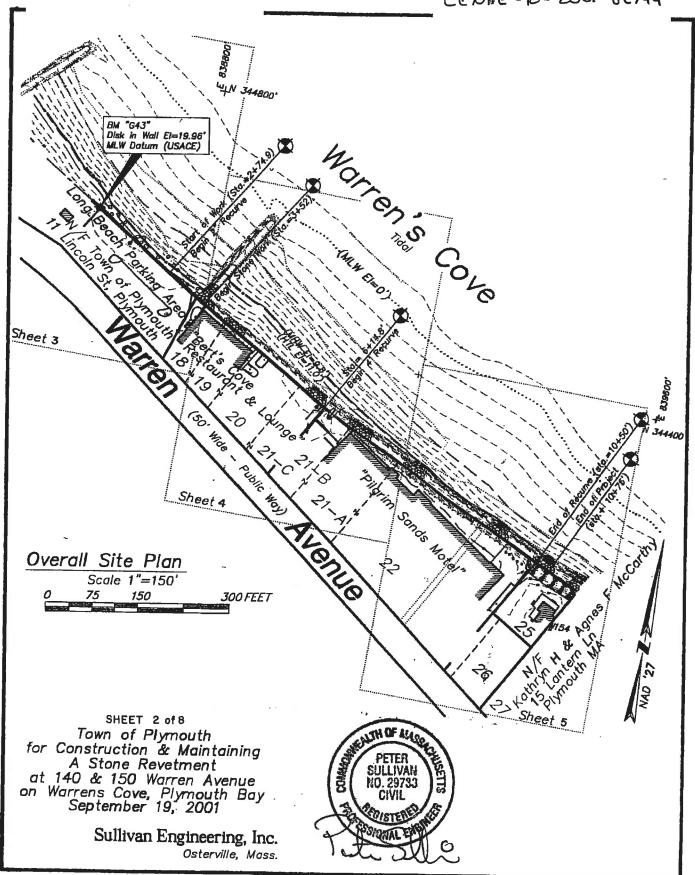
057-020-000-182 USACE -100 ROCK 335 FRANE 0180 COUNDINGS ARE INFERT AND TENTH, A COURT SERVING OF MEAN LOW WATER MINUS THOUSE SHOW ELEVATIONS ABOVE THE SAME PLANE AREA TO BE FILLED OUTLINED IN RED. ESTIMATED QUANTITY 2000 CUYDS DATUM - M.L. W PLYMOUTH HARBOR SEE US CES CHARTING 145 PLYMOUTH PLYMOUTH ROCK TYPICAL SECTION . SCALE OF PRET PLYMOUTH HARBOR PROPOSED FILLING AND RIPRAD APPLICATION BY DEPARTMENT OF PUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS AND PUBLIC LANDS OCTOBER 1925

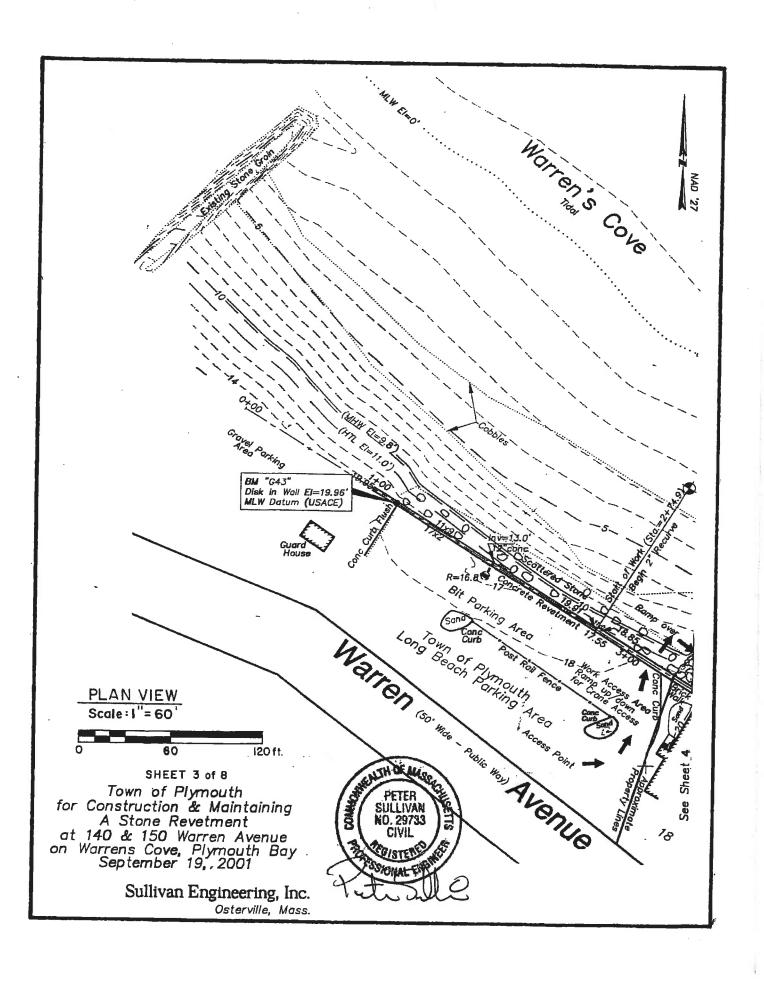
SHOW IN HERO PLYMOUTH HARBOR SEP II S E. E. CHART NO TAS SECTION OF RIP RAPANDELL PLYMOUTH SCALEFEET PROPOSED RIPRAPANDFILL PLYMOUTH HARBOR PLYMOUTH MASS. APPLICATION BY THE DEPARTMENT OF PUBLIC WORKS --- OF MASSACHUSETTS FEBRUARY 1928 DISTRICT WW FORTINGER ACC. 0816

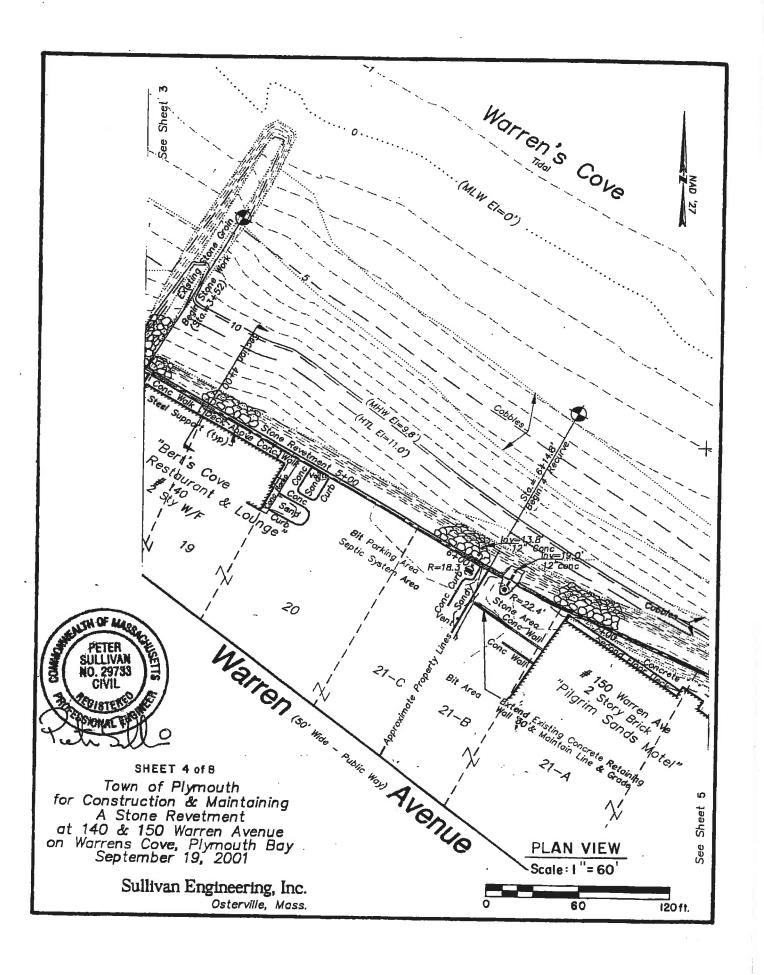
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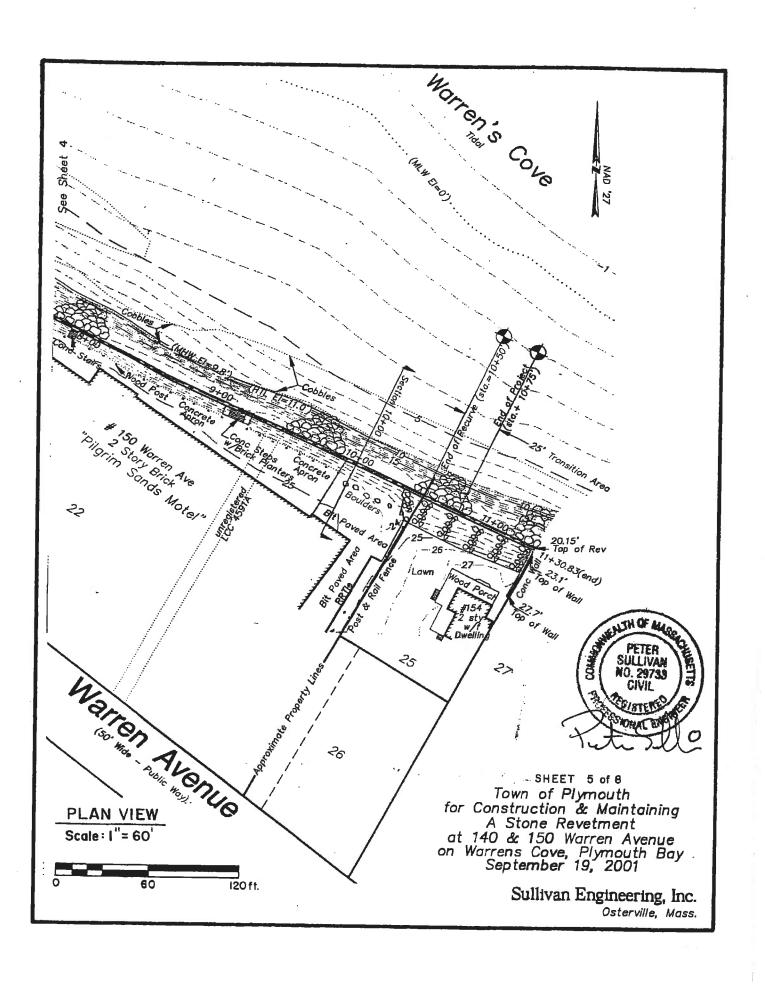
USACE NEDUP 56-287

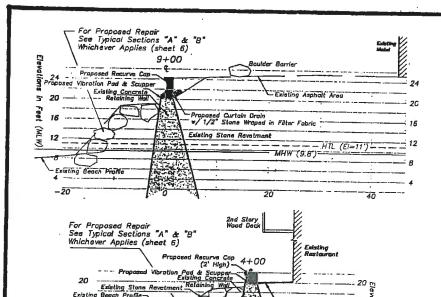






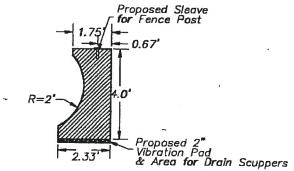






PROFILE VIEW
Scale: I"= 20'

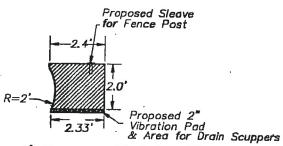




4' Recurve Wall Section
Typical (NTS)

-20

MHW (9.8') 8.



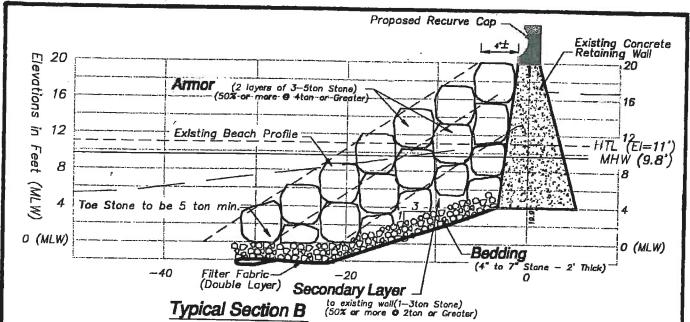
2' Recurve Wall Section
Typical (NTS)

SHEET 6 of 8

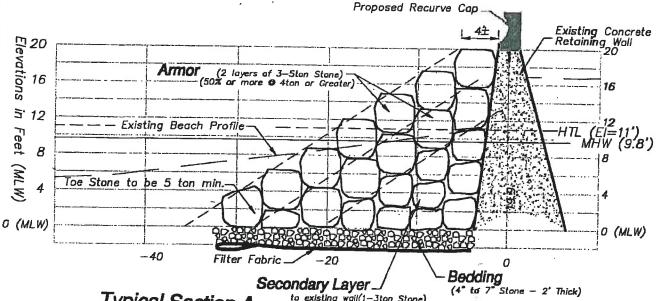
Town of Plymouth
for Construction & Maintaining
A Stone Revetment
at 140 & 150 Warren Avenue
on Warrens Cove, Plymouth Bay
September 19, 2001

Sullivan Engineering, Inc.
Osterville, Mass.





For the Case were the bottom of the existing retaining wall is above elevation 0' MLW.



Typical Section A

to existing wail(1—3ton Stone) (50% or more & 2ton or Greater)

For the Case were the bottom of the existing retaining wall is at elevation O' MLW.

PROFILE VIEW

Scale : | "= 10"

0 5 10 15 20 FEET



-SHEET 7 of 8

Town of Plymouth
for Construction & Maintaining
A Stone Revetment
at 140 & 150 Warren Avenue
on Warrens Cove, Plymouth Bay
September 19, 2001

Sullivan Engineering, Inc.
Osterville, Mass.

General Notes on Specification Requirements for Construction:

1. General.

Each stone will be placed by equipment sultable for lifting, manipulating, and placing stones of the size and shape specified.

Each stone shall be placed with its langest axis perpendicular to the armor slope. Placing efforts shall insure that each stone is

firmly set and supported by underlying materials and adjacent stones. Loose stones shall be reset or replaced.

Elevation of the toe stone must be witnessed and confirmed.

Armor Stone.

Armor stone should meet the following requirements: Stones with their largest dimension greater than three times the least dimension should be rejected.

The stones should have high specific gravity and low absorption.

Materials should be able to withstand the design impact conditions.

3. Secondary Layer: Stones with their largest dimension greater than three times the least dimension should not make up more than 10 % of the total.

All material should have adequate freezing and thawing resistance for the range of anticipated weather conditions.

4. Bedding Layer

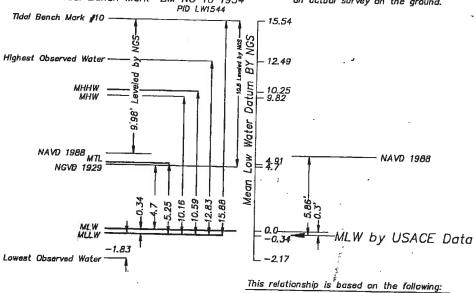
Stone should be within the size range specified and the material should be well blended. Stones with the largest dimension greater than three times the least dimension should not constitute more than 10% of the total.

The topographic information shown was obtained by conventional survey methods on or between January 8, and February 15, 2001. The datum used is Mean Low Water obtained from the USACE.

The property lines shown are from the Town of Plymouth Assessors' records and do not represent an actual survey on the ground.

Datum Relationship:

Tidal Bench Mark "BM NO 10 1954"



SHEET 8 of 8 Town of Plymouth for Construction & Maintaining A Stone Revetment at 140 & 150 Warren Avenue on Warrens Cove, Plymouth Bay September 19, 2001

> Sullivan Engineering, Inc. Osterville, Mass.

Length of series Time period Tidal Epoch Control Tide Station

3 Months June — August 1990 1960—1978 Boston (844 3970)



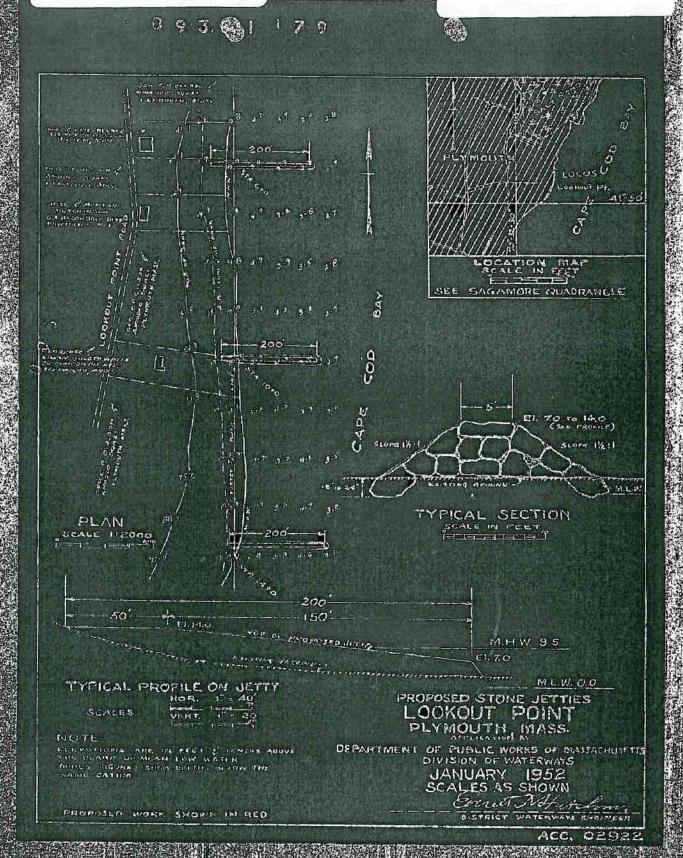
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USACE RUL 335 FRAMB 623



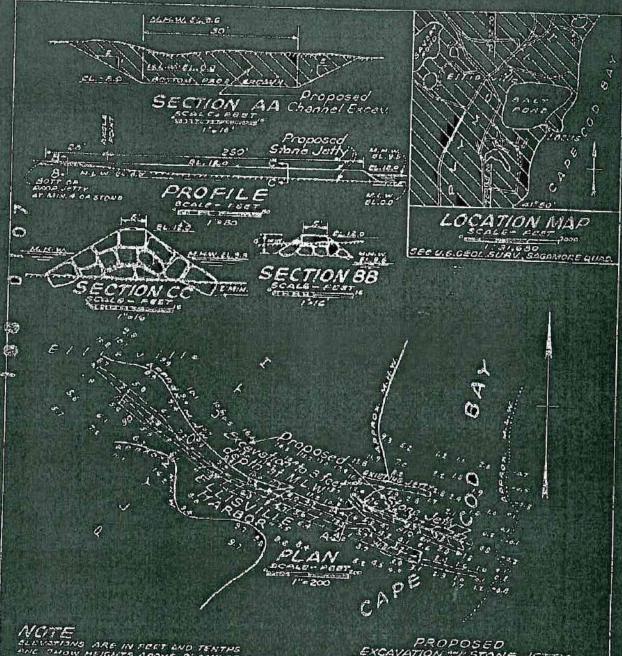
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AND AMOUN MEIGHTS ABOVE PLAND OF
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EXCALATED MAJERIAL, APPROX 18.200 C.X.
THE TOTHE NO. EAST OF PACROBED JETTY
LOCATION OF PROPOSED WORK 18 SHOWN
IN AND.

HARBOR

PLYMOUTH - MASS.

APPLICATION BY
INTSF FUNCIC WORMS ON MASSACHUSETTS

DIVISION OF WATERWAYS

JUNE-1960

04/20

USACE 057-059-000-103 NEDOD 69-133 -100 SHEET I OF PLYMOUTH BAY TYPICAL GROIN SECTION 141/15 PROFILE OF PROPOSED GROINS PROPOSED STONE GROINS PLYMOUTH BEACH PLYMOUTH MASS. APPLICATION BY
DEPARTMENT OF PUBLIC WORKS OF MASSAGHISETTS NOTES Elevations are infect and tenths and refer DIVISION OF WATERWAYS to the plane of mean low water. APRIL 1969 Side and end slopes of Gioris are 1% tol

057-37A-000-154 -100 USACE NEDNP 53-188 0 9 3 40 4 9 9 Care Son BAY V------COD PLYMOUTH APE Want be wonth From USCA 25 Chart No 1000 Soundings shown thes Z Elevations of topof proposed (11) shown thus (17) SPINALE 至60天53万里图555 VFederal Project 300 'e Soundings and elevations are in feet referred to Mean Low Water. NIHW (19.6) Waterial for fill to be obtained from MUNICOT hyperauli: chedging operations now under way A Existing Bottom in the federal Project Channel Log of fill will vary as indicated on plan. Side sloves assum SECTION A.A will be stabilized on slopes of land below water level. YMOUTH HARBOR Eline Flood Factor of Project Channel being diedyed to a depth of is rist MI W. under Federal Continct No DH-19 DIA eng-1988 by the Now England Oradije & Jock Co. -PLAN PROPOSED FILL IN PLYMOUTH HARBOR AT PLYMOUTH, MASS Application by The Town of Aug 21,1953