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

# Town of Marshfield

Prepared for: Office of Coastal Zone Management Boston, MA

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# **Section I**

# **Town of Marshfield**

# 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

BCE

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:
  - 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
  - Location of Emergency Shelters were not included in priority assessments
- Research was performed at the local, state and federal levels. The local research was limited to location and documenting available coastal structure contract drawings. Research at DCR was restricted to available historic construction plans for coastal structures at the MA-DCR Waterways office in Hingham, MA. No investigation of state archives was performed. Research at MA DEP Chp 91 and USACE was limited to recorded permits and licenses found in their files. No investigation was performed at the Registry of Deeds.

# DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

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

#### Database Attributes

Attribute Descriptions/Definitions

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

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

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

### CCC-MMM-PPP-BBB-SSS

Where:

CCC DEP Community Number

MMM Community Map Number

BBB Block Number (000 if no block numbering system)

PPP Community Parcel Number

SSS Structure Number



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<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

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

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



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

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

< 5 feet

5 to 10 feet

10 to 15 feet

>15 feet

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

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

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

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

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

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

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



Structure Comments: The engineering team provided a brief description and comment on the structure at the time of the field assessments which is provided in support of the condition rating that

Pictures: 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

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

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

USACE Permits: 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

# 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 B Rating
- Structures requiring limited or no repair and would be expected to experience only minor damage if subject to a major coastal storm event. The



value of these maintenance costs is assumed to be 10 percent of the construction cost.

- C Rating Structures requiring moderate to significant level of repair or reconstruction and would be expected to experience significant damage if subject to a major coastal storm event. The structure is presumed to be effective under a major storm event. The value of the repair costs is assumed to be 50 percent of the construction cost.
- D Rating 'Structures requiring significant level of rehabilitation or total reconstruction and would be expected to experience significant damage or possibly fail if subject to a major coastal storm event. The value of the repair costs is assumed to be 100 percent of the construction cost.
- 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 ondition sessment	Definition Based Upon Perceived Immediacy of Action and Potential to Cause Damage if Not Corrected	Level of Action Required				
A	Excellent	Like new condition. Structure expected to withstand major coastal storm without damage.	None				
		Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm					
		Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present.					
В	Good	Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure	Minor				
C	Fair	Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure.	Moderate				
		Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide additional material for full protection and extended life					
D	Poor	Structure exhibits advanced levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure has strong risk of significant damage and possible failure during a major coastal storm Structure should be monitored until repairs/reconstruction can be initiated. Actions taken to reconstruct structure to regain full capacity to resist a major coastal storm.	Major				
		Landform eroded, stability threatened. Landform not adequate to provide protection during major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.					
		Conditions of structure/landform may warrant emergency stabilization as failure may result in potential loss of property and/or life. Landform eroded, loss of integrity					
F	Critical	Structure exhibits critical levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure provides little or no protection from a major coastal storm. Actions taken to totally reconstruct structure to regain full capacity.	Immediate				
		Landform stability is severely compromised, rate of erosion/material loss may be increasing, and landform does not provide adequate protection from a major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.					



# **EXHIBIT B Priority Rating System -** 5 Level Rating System

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



#### CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

#### EXHIBIT C

#### September 14, 2006

#### **REPAIR / REHABILITATION COSTING DATA**

Cost per linear foot of structure

STAUCTUREATYPE	STRUCTURE Materials	STRUCTURE HEIGHT	A	ST B	RUCTURE CONDITION R	ATING D	
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
	4.	10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	STEEL	Under 5 Feet	\$0	\$54	\$273	\$546	\$680
		5 To 10 Feet	\$0	\$165	\$825	\$1,650	\$1,848
		10 To 15 Feel	\$0	\$251	\$1,254	\$2,508	\$2,772
		Over 15 Feet	\$0	\$343	\$1,716	\$3,432	\$3,795
	STONE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
	i	5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
	g .	10 To 15 Feel	\$0	\$251	\$1,254	\$2,508	\$2,970
	\ <u></u>	Over 15 Feet	\$0_	\$396	\$1,980	\$3,960	\$4,752
	** WOOD	Under 5 Feet	\$0	\$86	\$431	\$862	\$994
	HERMAN	5 To 10 Feet	\$0	\$127	\$632	\$1,265	\$1,463
		10 To 15 Feet	\$0	\$161	\$804	\$1,608	\$1,872
ago walaya koyay		Over 15 Feet	\$0	\$202	\$1,008	\$2,017	\$2,380
	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
COASTAL BEACH		5 To 10 Feel	\$0	\$127	\$634	\$1,267	\$1,267
		10 To 15 Feet	\$0	\$224	\$1,122	\$2,244	\$2,244
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$3,960
	SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
COASTAL DUNE		5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
		10 To 15 Feet	\$0	\$79	\$395	\$790	\$790
		Over 15 Feet	\$0	\$132	\$660	\$1,320	\$1,320
REVETMENT	STONE	Under 5 Feet	\$0	\$66	\$333	\$664	\$730
	ē	5 To 10 Feet	\$0	\$120	\$601	\$1,201	\$1,300
		10 To 15 Feet	\$0	\$157	\$781	\$1,564	\$1,696
		Over 15 Feet	\$0	\$247	\$1,234	\$2,468	\$2,666
ROIN	STONE	Under 5 Feet	\$0	\$157	\$664	\$1,328	\$1,460
	10.46	5 To 10 Feet	\$0	\$157	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$157	\$1,564	\$3,128	\$3,392
		Over 15 Feet	\$0	\$157	\$2,468	\$4,937	\$5,333

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



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# **Section II**

Town of Marshfield

**Community Findings** 



### Section II - Community Findings - Town of Marshfield

#### COMMUNITY DESCRIPTION

The Town of Marshfield consists of a land area of 28.5 square miles out of a total area of 31.7 square miles and had a population of 24,324 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 12.0 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 Marshfield, there were 32 publicly owned structures identified which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 3 in Section III of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND	OHANTITY	Tarres	of Monalettal

	Total	S	tructure Conc	lition Rating		Total Length
Primary Structure (1)	Structures A	B	С	D	F	(feet)
Bulkhead / Seawall	18	3	11	4		14820
Revetment	8	1	6	1		3390
Groin / Jetty	6	1	4	1		2640
Coastal Dune						
Coastal Beach						
	32	5	21	6		20850

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 Marshfield's case there are a total of 32 structures which would require approximately \$22.4 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 \$12.0 million would be required to upgrade the Town's coastal protection.



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STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Marshfield

	Total		St	ructure Cond	lition Rating		
Primary Structure (1)	Structures	Α	В	С	D	F	Total Cost
Bulkhead / Seawall	18		\$668,976	\$5,332,552	\$ 10,309,385		\$ 16,310,913
Revetment	В		\$ 21,622	\$2,535,377	\$ 203,346		\$ 2,760,345
Groin / Jetty	6		\$ 73,828	\$1,808,136	\$ 1,489,488		\$ 3,371,452
Coastal Dune							\$ -
Coastal Beach							\$ -
	32	<b>\$</b> -	\$764,426	\$9,676,065	\$ 12,002,219 \$	-	\$22,442,710

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

STRUCTURE OWNERSHIP / REPAIR COST - Town of Marshfield

	Total		St	tructure Cond	lition Rating			
Primary Structure (1)	Structures	Α	В	C	D	F	Tota	al Cost
Town Owned	32		\$764,426	\$9,676,065	\$ 12,002,219		\$ 22,	442,710
Commonwealth of Massachusetts Federal Government Owned							\$	-
Unknown Ownership							\$	-
p							\$	•
	32	<b>S</b> -	£704 400	#D 070 005	£ 42 000 040	m	\$	-
	JZ	Φ-	\$764,426	\$9,676,065	\$ 12,002,219	<b>)</b> -	· \$22,4	442,710

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 Marshfield'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.



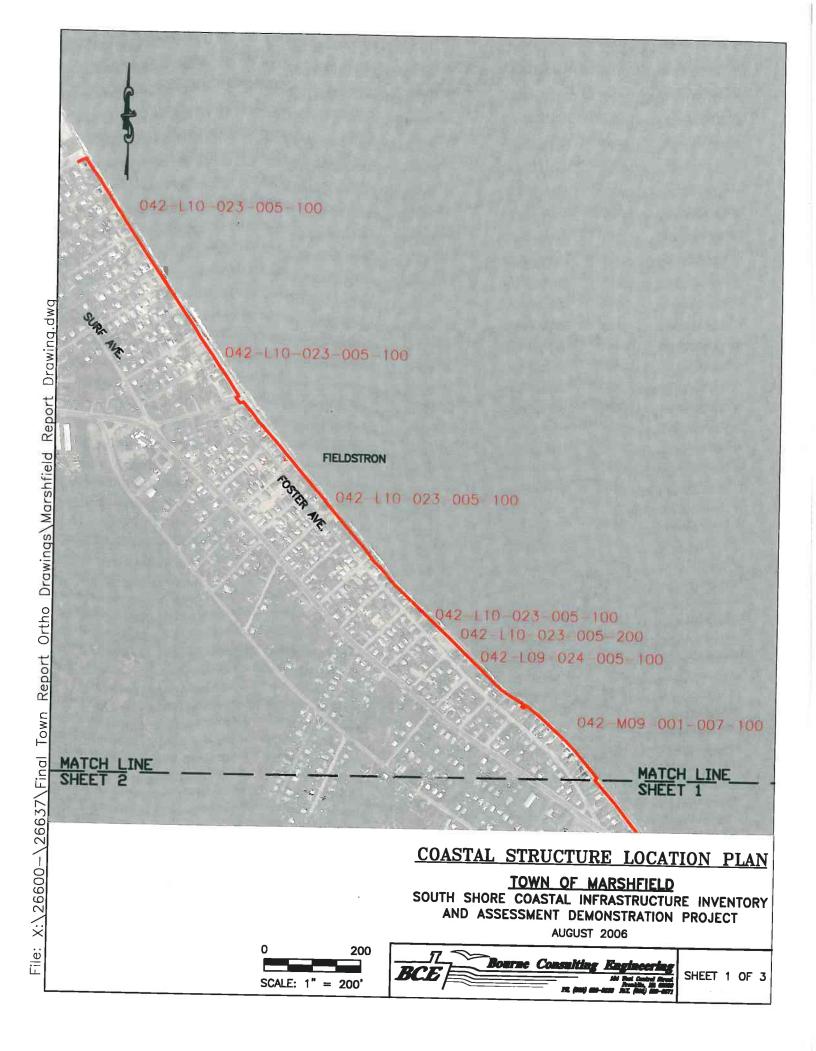
 $\Pi$  - 2

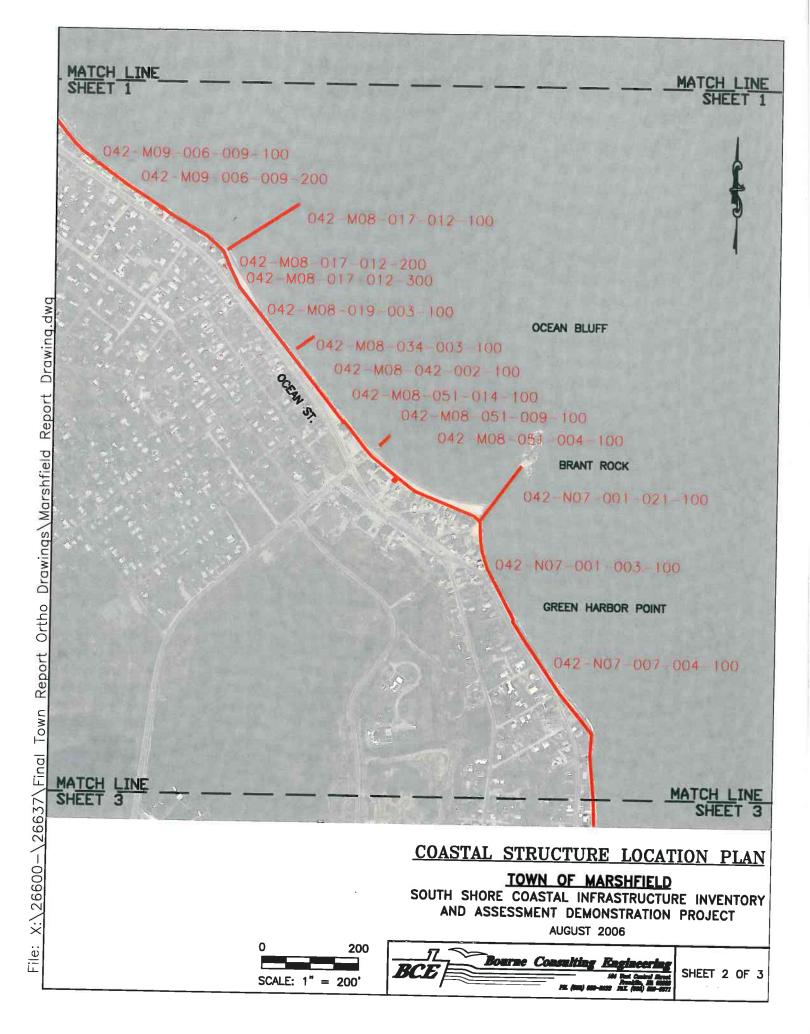
# **Section III**

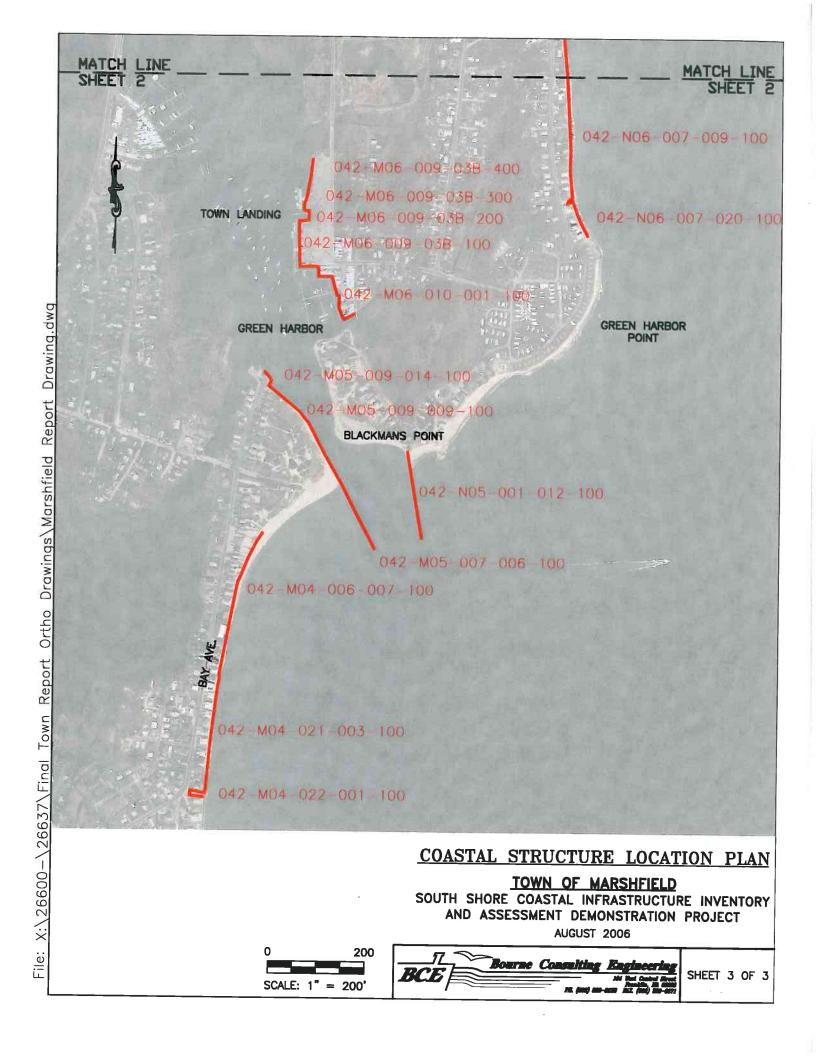
# **Town of Marshfield**

**Structure Assessment Reports** 









### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-L09-024-005-100

Local Presumed Structure Local Owner Name: Marshfield	e Owner:		Foster Av Based On		the state of the s	Date	8/16/200
Local Owner Name:	e Owner:		Based On				0/10/200
Local Owner Name:			Dabea Off	Comment:			
A STATE OF THE PARTY OF THE PAR			USACE -			on the William Co.	
A STATE OF THE PARTY OF THE PAR			3				
	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	California (California)	Earliest S	tructure Record	96	Estimated Recons	truction/Repair Cost:
	and the second of the second o	. Programmer of the second statement of the second sta	thair in 18 than Makhappaning balah bakah bakan manungan ba		Commission and Commission Commiss		\$120,384.00
	evation:	FIRM Map Zone:	FIRM Map El	evation:		er og en er	
380	13	VE		22		A SEE	1 1
Feet Feet N	AVD 88		Feet	: NGVD			
Primary Type:		y Material:	Primary Heig	ht:		Marion San	
Bulkhead/ Seawall	Concre	ete	10 to 15 Fee				
Secondary Type:	Seconda	ary Material:	Secondary H	eight:			
Revetment	Stone		Under 5 Feet		STAN		
Structure Summary					<b>第二</b>		***
	problems, supe to landform is p adequate to pro- coastal storm v	rved to exhibit very efficial in nature. Miroresent. Structure povide protection from with no damage. Actifuture deterioration.	nor erosion / landform n a major tions taken	Rating Action Descrip	tion High Va for Infra Density	riority er for Next Project Cor alue Inshore Structure: astructure Damage and Residential Dwellings ed / 100 feet of s horeli	s with Potential d/or Moderate s ( 1-10 dwellings
	s:		cture Docur				
_	0.000		SHFIELD D	MAY 1999	SEAWALL	042-L09-024-	005-100-TWN14
42-L09-024-005-10							000-100-17714174
Structure Images 42-L09-024-005-10 42-L09-024-005-10		MAR	SHFIELD D of Marshfiel	MAY 2000 DEC 1996	ASBUILT SEAV		-005-100-TWN1B

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-L10-023-005-100

Local			Locatio	n:		Date:
Local			Foster Av	/e.		8/16/200
Presumed Struct	ure Owner:		Based On	Comment:		,
Local		200	DCR - Co	ontract Drawings		and the second s
Owner Name:			Earliest S	tructure Record:		Estimated Reconstruction/Repair Cost:
Marshfield		7		193		\$6,451,500.00
Length: Top	Elevation:	FIRM Map Zone:	FIRM Map El	identicarium au nu réactificant biografiage april april 1909 de bassarium attendant de la companya de la compa Principal de la companya de la comp Evation:	Fed har Fisched Passeddes plates allessed a 12 alles des plates de 12 de 12 alles de 12 de	ntiklaki orat tauti dikabuhana, 19.52 mulakiselakis Santandannudan dahugu mencula sasa sasa sasa sasa sasa sas untummin kaditantannaki-perdam daran-kantanannakin-hadi gusum kitam sasa sasa sasa sasa sasa sasa sasa s
4250	13	VE		22	Section .	1
Feet Feet	NAVD 88	3	Feet	NGVD		
Primary Type:	Prir	nary Material:	Primary Heig	ht:		
Bulkhead/ Seawa		ocrete	5 to 10 Feet	and a company of the		
Secondary Type:	Seco	ondary Material:	Secondary H	eiaht:		
Structure Summa	irv :		F			
Description	undermining strong risk of failure during	n, section loss, crackin g, and/or scour. Struct of significant damage a g a major coastal storr nonitored until	ure has nd possible n. Structure	Descript	for Infrastru Density Res	Inshore Structures with Potential cture Damage and/or Moderate sidential Dwellings (1-10 dwellings 100 feet of shoreline)
	repairs/reco taken to rec capacity to Landform e Landform no during majo recreate lan	enstruction can be initial construct structure to resist a major coastal stroded, stability threater of adequate to provide r coastal storm. Action dform to adequate limition a major coastal storm.	gain full storm. led. protection s taken to ts for full			
itructure Imag	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	construct structure to re resist a major coastal stroded, stability threater of adequate to provide r coastal storm. Action dform to adequate limitors a major coastal storm	gain full storm. led. protection s taken to ts for full			
Structure Imag 042-L10-023-005	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater of adequate to provide r coastal storm. Action dform to adequate limitor a major coastal storm.	gain full storm.  led. protection s taken to ts for full orm.  cture Docur		PROPOSED	042-1 10.023.005 100 DCD4A
)42-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater ot adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto	gain full storm. led. protection s taken to ts for full orm.  cture Docur	AUGUST 19	PROPOSED	042-L10-023-005-100-DCR1A
42-L10-023-005- 42-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater of adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto  Stru  MA I  MA I	gain full storm. led. protection s taken to ts for full orm.  cture Docur DPW	AUGUST 19 SEPT 1930	PROPOSED PILE	042-L10-023-005-100-DCR1B
42-L10-023-005- 42-L10-023-005- 42-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater ot adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto  Stru  MA D  MA D	gain full storm. led. protection s taken to tts for full orm.  cture Docur DPW DPW	AUGUST 19 SEPT 1930 SEPT. 1939	PROPOSED PILE PROPOSED	042-L10-023-005-100-DCR1B 042-L10-023-005-100-DCR1C
Structure Imag 042-L10-023-005- 042-L10-023-005- 042-L10-023-005- 042-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater of adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto  Stru	gain full storm.  led. protection s taken to ts for full form.  cture Docur DPW DPW DPW	AUGUST 19 SEPT 1930 SEPT. 1939 SEPT 1930	PROPOSED PILE PROPOSED PILE	042-L10-023-005-100-DCR1B 042-L10-023-005-100-DCR1C 042-L10-023-005-100-TWN1A
42-L10-023-005- 42-L10-023-005- 42-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater ot adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto  Stru	gain full storm. led. protection s taken to ts for full orm.  cture Docur DPW DPW DPW SHFIELD D	AUGUST 19  SEPT 1930  SEPT. 1939  SEPT 1930  AUGUST 20	PROPOSED PILE PROPOSED PILE PROPOSED PILE SEAWALL &	042-L10-023-005-100-DCR1B 042-L10-023-005-100-DCR1C 042-L10-023-005-100-TWN1A 042-L10-023-005-100-TWN1B
42-L10-023-005- 42-L10-023-005- 42-L10-023-005-	repairs/recc taken to rec capacity to Landform e Landform n during majo recreate lan protection fr	onstruct structure to re resist a major coastal s roded, stability threater ot adequate to provide r coastal storm. Action dform to adequate limi rom a major coastal sto  Stru	gain full storm. led. protection s taken to ts for full orm.  cture Docur DPW DPW DPW SHFIELD D SHFIELD D	AUGUST 19 SEPT 1930 SEPT. 1939 SEPT 1930	PROPOSED PILE PROPOSED PILE	042-L10-023-005-100-DCR1B 042-L10-023-005-100-DCR1C 042-L10-023-005-100-TWN1A

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-L10-023-005-200

Property Owner:			Locatio	on:	Date:	Date:		
ocal			Foster A	ve.		8/16/2006		
resumed Struc	ture Owner:		Based On Comment:					
.ocal	10 4 4 4 4 4 4 4 5 6 6 4 4 4 4 6 6 6 6 6 6	The second secon	DCR - C	Contract Drawi <b>ng</b> s				
Owner Name:			Farliest 9	Structure Record:		Estimated Pacanetrustic	n/Bonoir Cost	
/larshfield			LG. IICSC	The state of the s				
		takku penduan ya atauk nagaphen parkidisukan kilik ndakazan nan miliyi in Parkida panisisa dalah Milikan Parta takki menonyuwan nan takki daki kemembapken yang di 19. ataukida dense bulan ya	A MERIKALAT V IIV CAMBRI ABALIPA LIRAGA (V) PARA ARBAGA AINA AINA PARA PARAMENTAN INDONESIA ABALIPA AINA ABALIPA AINA ABALIPA AINA ABALIPA AINA ABALIPA AINA ABALIPA AINA ABALIPA	ocidati inclubit i "disci i "disci incl. associate i per Not "to disci incluina discretico orbita del primentale amenti in incluinta i receptada (in recolatemente e mente el antico amenti antico amentico	t del divider strekturden vereich aus van de kant die die die de	100 foliosis familia lague rei, a social Adoles e reida historiale a reida de 2000 foliosis familia con e reida salabenco e de	\$829,145.00	
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	et NAVD 88	1					D	
				et NGVD		THE REAL PROPERTY.		
rimary Type: Fulkhead/ Seav		rimary Material: Concrete	Primary Hei	The Company of the Co	nor all all	STOR WAR		
	,				**		íd	
econdary Type: Secondary Material: Stone			Secondary F Under 5 Fee	The state of the s				
*			Joiner 2 Let	5L				
tructure Summ		of the adjacent chart	but now he			seawall also exhibits major	·	
Condition  Rating Poor Level of Action  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 storr should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal stores.		ng, spalling, cture has and possible rm. Structure ated. Actions regain full storm.	Priority Rating Action Descript	ion High Val for Infras Density	ority r for Next Project Constructue lue Inshore Structures with structure Damage and/or M Residential Dwellings (1-10 d / 100 feet of shoreline)	Potential oderate		
	Landform during ma recreate la	eroded, stability threate not adequate to provide ajor coastal storm. Actio andform to adequate lim i from a major coastal s	e protection ns taken to nits for full					
ructure Ima			ucture Docu					
0 1 40	5-200-PHO2A	.jpg MA	DPW	AUGUST 19	PROPOSED	042-L10-023-005-2		
2-L10-023-00			D D14/	IOCOT 4004	PROPOSED PIL	E 042-L10-023-005-2		
2-L10-023-00		MA		SEPT 1931	3			
2-L10-023-00		MA	DPW	SEPT 1939	PROPOSED	042-L10-023-005-2	00-DCR2C	
2-L10-023-00		MA MA	DPW DPW	SEPT 1939 SEPT 1931	PROPOSED PIL	042-L10-023-005-2 E 042-L10-023-005-2	00-DCR2C 00-TWN2A	
2-L10-023-00		MA MA	DPW	SEPT 1939	PROPOSED	042-L10-023-005-2	00-DCR2C 00-TWN2A	

# **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M04-021-003-100

Property Owner:			Location:	run Martinist or missionering (Lettrichfortge	trejskricht fill till som till sicher till sich i Simmelten den genauch in zur eine der gefaller ett das die	Date:	
Local			Bay Ave.		The state of the s	8/16/20	
Presumed Structu	re Owner:		Based On Comment:				
Local			DCR – Contract Draw	ngs		70.000	
Owner Name:			I Earliest Structure Rec		-	impled December 11 (D. 1977)	
Marshfield		,	Lamest Structure Rec	1947	ES	imated Reconstruction/Repair Cost \$614,790.00	
en e	The second secon	e - Orlow Market Ernstelle (1 to 15 to 15 to 16 to 16 - Orlow Market Ernstelle Theory (1 to 16 to	ett dissin kadede i i indistibili tiri yeseerisiddi. Yel-deli yel-brilikinge eepi-de, wake i iladi ilisoonaaaj Tiritiikse vante valaan kasimikkeen kalijiiking tiritiikse ilisoonaa oo ka di saada kasimikse ilisoonaaajiikse	Mandamary y 100 Territoriologica (1944) (1986) Perrocalisa anna de Selektrona (1986)		QUI 1/7 JOS.CC	
			RM Map Elevation:		The same of the sa		
810	10	VE	20				
	NAVD 88		Feet NGVD				
Primary Type:	Primary Ma		mary Height:				
Bulkhead/ Seawal			o 10 Feet				
Secondary Type:	Secondary	Material: Sec	condary Height:				
Revetment	Stone	1					
Structure Summar							
wall, above the to	e wall.	ii a toe wali and rip i	ap along the front. T	nere is si <b>gn</b>	iiticant cracki <b>ng a</b> i	nd spalling along the base of the	
Condition	С		Prior	ritv	IV		
Rating	Fair		Ratin		High Priority		
Level of Action	Moderate		Actio	_	Consider for N	ext Project Construction Listing	
Description	deterioration, secti undermining, and/o to withstand major moderate damage structure to provide coastal storm and structure. Moderat landform exists. La to fully protect shot storm. Actions take	but may exhibit mino on loss, cracking, sp or scour. Structure at coastal storm with lit. Actions taken to reit full protection from for extending life of the wind or wave damindform may not be streline during a major en to provide addition tection and extended	alling, dequate ttle to nforce major age to sufficient coastal	ription	for Infrastructu Density Resid	shore Structures with Potential ire Damage and/or Moderate ential Dwellings (1-10 dwellings of feet of s horeline)	
structure Image		Structur	e Documents:	ersteld 200 fakt i Palalide en de en	med files 50m spekert det 2014 kildelengen het met personelle det deldere at i Med 1904 files deldere delde med 1904 files delde delde med 1904 files delde	ald any medican scanner than controller visions may be standard medical or wild (visions of the well and which were the standard than the	
42-M04-021 <b>-</b> 003-	100-PHO1A.j <b>pg</b>	MA DPW	JAN 1947	PROF	POSED	042-M04-021-003-100-DCR1A	
42-M04-021-003-	100-PHO1B.jpg	MA DPW	OCT 1965	GREE	N HARBOR,	042-M04-021-003-100-DCR1B	
		DEP CH.	NOV 16 19	9 PLAN		042-M04-021-003-100-LIC1A	
		MDPW	OCT 1965	PROF	POSED SHORE	042-M04-021-003-100-TWN1A	
		MA DPW	JAN. 1947	- IDDOI	POSED	042-M4-021-003-100-TWN1B	
		USACE	JUAN. 1947	PROF	OSED	1042-144-02 1-003-100-1 VVN 1B	

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M04-022-001-100

Property Owner:	The state of the s	Locatio		latulusi (dalekkorinim) tataki kurilatup murulustan aheriodisuse olipunt	norm: tattiministativistici vita	a desimble de a de la proposició de la companya de La companya de la companya del companya de la companya de la companya del companya de la c
Local	The second section of the second seco	Bay Ave.	And the second second second	A		8/16/2006
Presumed Structui	re Owner:	Based O	n Comment:		- 1	-,, 2000
Local			DCR – Contract Drawings  Earliest Structure Record:			
Owner Name:		1				
Marshfield	/	Earliest	The second secon	65	Estimated Recons	truction/Repair Cost: \$78,170.00
ength: Top E	Elevation: FIRM Map	Zone: FIRM Map E	in the pay of the National Conference of the State of the	ad Microsoft di la pour la primeira de defendido de la lacemente de recurso de la primeira de la managa en 190 La mante de la managa del managa de la managa del managa de la managa de la managa de la managa del	a near head for it am Art Call Divers of an Art Call Divers of a self-decided Art Art Call Divers of a self-decided by a case, they be a self-decided by a case, they be a self-decided by a case of a self-decided by a	
235	10	VE	20			
Feet Feet	NAVD 88	Fee	et NGVD	400		THE REAL PROPERTY AND ADDRESS OF THE PERTY
Primary Type:	Primary Material:	Primary Heig	ght:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Revetment	Concrete	Under 5 Fee	The state of the s			
Secondary Type:	Secondary Material:	Secondary H	leight:			
Structure Summan	# ·	· · · · · · · · · · · · · · · · · · ·		100		
	concrete access ramp to the	beach. There is major	or cracking in pla	aces, some of w	hich has been repaired w	rith grout.
Condition	C		Priority	III		
Rating	Fair Moderate		Rating		erate Priority	
Level of Action Description	Structure is sound but may	exhibit minor	Action to minor		sider for Active Project Im	provement
•	deterioration, section loss, undermining, and/or scour. to withstand major coastal moderate damage. Actions structure to provide full procoastal storm and for exter structure. Moderate wind clandform exists. Landform to fully protect shoreline du storm. Actions taken to promaterial for full protection a	cracking, spalling, Structure adequate storm with little to taken to reinforce tection from major ading life of or wave damage to may not be sufficient ring a major coastal vide addition	Descripi	Infra: Resi	ore Structures with poten structure Damage and/or dential Dwellings ( <1 dw feet of shoreline)	Limited
tructure Image 12-M04-022-001-1		Structure Docur MA DPW DEP CH.91 MDPW	ments: OCT 1965 NOV 16 199 OCT 1965	GREEN HAR PLAN PROPOSED	042-M04-022	-001-100-DCR1A -001-100-LIC1A -001-100-TWN1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M05-006-007-100

Key: community-map-block-parcel-structure

Property Owner: Location: Date: Local Bay Ave. 8/16/2006 Presumed Structure Owner: Based On Comment: Local DCR - Contract Drawings Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: Marshfield 1957 \$789,360.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 1040 10 VE Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Concrete 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Revetment Stone Structure Summary: This structure is a concrete seawall with a concrete toe wall with rip rap along the front. There is cracking and spalling evident especially along the wall crest. Condition С IV **Priority** Fair Rating **High Priority** Rating Level of Action Moderate Consider for Next Project Construction Listing Action Structure is sound but may exhibit minor Description High Value Inshore Structures with Potential Description deterioration, section loss, cracking, spalling, for Infrastructure Damage and/or Moderate undermining, and/or scour. Structure adequate Density Residential Dwellings (1-10 dwellings to withstand major coastal storm with little to impacted / 100 feet of shoreline) moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents: 042-M05-006-007-100-PHO1A.jpg MA DPW NOV. 1957 PROPOSED SHORE 042-M05-006-007-100-DCR1A MA DPW OCT 1965 GREEN HARBOR, 042-M05-006-007-100-DCR1B MARSHFIELD D NOV 1978 PROPOSED 042-M05-006-007-100-TWN1A MDPW NOV 1957 PROPOSED SHORE 042-M05-006-007-100-TWN1B MDPW OCT 1965 PROPOSED SHORE 042-M05-006-007-100-TWN1c

### **Structure Assessment Form**

Town: Marshfield
Structure ID: 042-M05-007-006-100

Local		2440	Location:		NCP-10-reary - Pall' CP-60000000004650-Ar-7-yip-1-159-90000-fg/86-fa		Date:
			Green Harb	or Breakwater		NATIONAL TO A STATE OF THE PARTY OF THE PART	8/16
Presumed Structur	re Owner:		Based On C	omment:			*
Local		1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DCR - Cont	tract Drawings			
Owner Name:			Earliest Stru	ıcture Record:		Ectimated	Reconstruction/Repair
Marshfield	Therefore the second of the se	7		194	Ī	Lauriated	\$864,86
		Map Zone:	FIRM Map Elev	ation:	Microbial India (India) (India	atoma pili vila vide. Cradina Vilaga etiden (v. 19 4. etiden militaria zero kalabati Karattilla vide vitilaren (v. 1916) etiden pili vilaga (v. 19. etiden vila etiden teknika jarren jarren jarre Vilaga vilaga jarren (v. 1916)	0000 COL Gradulere ACP PERFORMENT ON THE MESSAGE ACCOUNT OF THE MESS
720	7	VE		20	5		
Feet Feet N	NAVD 88		Feet N	GVD			The I work that the
Primary Type:	Primary Mater	ial:	Primary Height:	•		7.	
Groin/ Jetty	Stone		5 to 10 Feet			J. L	
Secondary Type:	Secondary Mat	erial:	Secondary Heig	jht:			
Structure Summary							
Condition	stone jetty along the so is a large failed section C Fair	along the tru	nk which preven	ts safe access the safe access	to the jetty h	ead.	
Rating Level of Action	Moderate			Rating		derate Priority	
Description	Structure is sound but	may eyhihit	minor	Action	Cor List	nsider for Active P ina	roject Improvement
	deterioration, section I undermining, and/or se to withstand major coa moderate damage. Ac structure to provide ful	cour. Structurestal storm water taken to light to the staken to light the staken the staken to light the staken to light the staken to light the staken to light the staken the stake	re adequate ith little to o reinforce rom major o of damage to	Description	Infra Res	nore Structures wi astructure Damag sidential Dwellings feet of shoreline)	pe and/or Limited s ( <1 dwelling impacted)
	coastal storm and for a structure. Moderate w landform exists. Landfi to fully protect shorelin storm. Actions taken to material for full protect	orm may not le during a m o provide add	ajor coastal lition				
tructure Image	structure. Moderate w landform exists. Landfi to fully protect shorelin storm. Actions taken to material for full protect	orm may not the during a may to provide add ion and exte	ajor coastal dition nded life.		ethiotraminasi saka kansasan asu, akkanisa katikati kati yan saka saka kita kita katika		
<b>tructure Im</b> age 42-M05-007-006-1	structure. Moderate w landform exists. Landfi to fully protect shorelin storm. Actions taken to material for full protect	orm may not le during a m o provide add ion and exte	ajor coastal dition nded life. cture Docume		PROPOSED	- 1042.h	M05-007-006-100-DCR1

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M05-009-009-100

		Location	MARIA (AAP), with 54 for 64 follow the developed with region (and AP) to 44 molecy to a kind over 1, and the following of the	- Not the interesting and the contraction of the co		
Local	The same of the sa		bor Breakwater	8/16/200		
Presumed Structur	e Owner:	Based On	Comment:	- J		
Local			DCR – Contract Drawings			
Owner Name:			ucture Record:	Estimated Peasestrucks (P. 1. C.)		
Marshfield	7	Edillest Sti	1974	Estimated Reconstruction/Repair Cost: \$273,672.00		
	And date in the second	The shall are shall ask and the shall with the shall also also also also also also also a	*** - 1944 for Line Gregorie — glas und schild Rock Vallahumse, quay = 1,275 - 589 f. 45 7 Schild biologica in Die 1880 Full Vallahum — weil President habeteit hat his hann Na und vallander Adhabeteit wie very service in the servic			
Length: Top E	elevation: FIRM Map 7	Zone: FIRM Map Ele VE		Date Self Inches		
	VAVD 88		17			
			NGVD			
Primary Type: Bulkhead/ Seawall	Primary Material: Wood	Primary Heigh Under 5 Feet	t:			
		,				
Secondary Type: Revetment	Secondary Material: Stone	Secondary He	ight:			
Structure Summan	2					
Sections of some to but is generally in Condition	<b>poards are missing completely</b>	v. Some of the bolts in	the wall are also mis	long the crest of the wall are split and cracked. ssing. The revetment exhibits some minor slumping		
Rating	Fair		Priority Rating	" Low Priority		
Level of Action	Moderate		Action	Future Project Consideration		
Description	Structure is sound but may deterioration, section loss, undermining, and/or scour. to withstand major coastal smoderate damage. Actions structure to provide full prot coastal storm and for extenstructure. Moderate wind o landform exists. Landform to fully protect shoreline dustorm. Actions taken to promaterial for full protection a	cracking, spalling, Structure adequate storm with little to taken to reinforce ection from major ding life of r wave damage to nay not be sufficient ring a major coastal vide addition	Description	Inshore Structures Present with Limited potential for Significant Infrastructure Damage		
Structure Image	es: 100-PHO1A.jpg	Structure Docum	AUG. 1974 PRO	DPOSED SHORE  042-M05-009-009-100-DCR1A   DPOSED SHORE   042-M5-009-009-100-TWN1A		

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M05-009-014-100

Property Owner:	er vermen er en	Location:	ar kildligtik kildigi en eresettide kil "instalera esser-der vil de reptembrishen tarvel	aut accustomer reproductive o anomalismo consecutive accustomer cons	entredictional control of the second second control of the second be-
Local		Green Harbor Bi	eakwater	Jacon	8/16/2006
Presumed Structu	ire Owner:	Based On Comm	ent:		
Local		Property Owners	ship		
Owner Name:		Earliest Structure	e Record:	Estimated Reconstruc	ction/Bonnie Costs
Marshfield			0	Estimated Recording	\$39,917.00
120	Primary Material:  Stone  Secondary Material:		-		
		Telgiti.	*		
Structure Summar	y :				
Condition Rating Level of Action Description	Fair  Moderate  Structure is sound but may exhit deterioration, section loss, crack undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions take structure to provide full protection coastal storm and for extending structure. Moderate wind or wav landform exists. Landform may not fully protect shoreline during a storm. Actions taken to provide a material for full protection and extending for full protection and extending the structure.	pit minor ing, spalling, sture adequate with little to not reinforce in from major life of ree damage to not be sufficient major coastal addition	Priority Rating Action Description	II Low Priority Future Project Consideration Inshore Structures Present with I potential for Significant Infrastruc	Limited cture Damage
Structure Image 042-M05-009-014-		ructure Documents:		er rederformet betaten versenskelse en i versen kreiter proteste kommen en e	

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M06-009-03B-100

Property Owner:	at ti sidelisensia dideletet in teknis an entermedelisent eine sin koninstellet in betammet mood pieded Stemel eine din die traditione der der til 1948 til	Location:	Katalalaydan iyoqirlabingindiqalabiyinginganlarini Arekjinginala	Date	n Melahar Melahansida seripak opa er meste exchircologie
Local	A STATE OF THE STA	Town Landing			8/16/2006
Presumed Structure	e Owner:	Based On Com	ment:		
Local		Property Own	ershi <b>p</b>		
Owner Name:		Earliest Structu	iro Docordi	Estimated Descript	
Marshfield	/	Larnest Structt	0	Estimated Reconst	ruction/Repair Cost: \$182,160.00
	en e	idel-invide vinder-installigenillangstige-despekt 9°-kryldit y Odesmigdiplondes (dirivati richter-sprendillen Sicher eines eines eines eine stellen die kryldit vide kal die installiere ein des	dr-Nodofronamaedo passou-jai jauniakuri akrist valdassusour v kosto. Nodofrolikki ki salasta dofu asid suurvassusovususianuvusos, u asab oli	Notes the Production of the Contract of the Co	ender (ARC) of Scool (Association) - 19 a) - 19 a 19
Length: Top E	levation: FIRM Map Zone:  4 AE	FIRM Map Elevation	<u> </u>	The golden	
1 1	4 AE	1	10	A CONTRACTOR OF THE PARTY OF TH	
		Feet NGV	U		
Primary Type: Bulkhead/ Seawall	Primary Material: Concrete	Primary Height: 5 to 10 Feet			ME IN
.5.	,	•	4		A 18/19
Secondary Type: Revetment	Secondary Material: Stone	Secondary Height	-		
Structure Summary	2	<b>ii</b>			
	concrete seawall with stone revetme	ent serving as a fou	ndation This wal	Llies hehind the main wooden nice	r. The wall chours
significant cracking	and spalling especially along the to	e where the concre	te and stone mee	t.	THE WAII SHOWS
Condition	D		Priority	II	
Rating	Poor		Rating	Low Priority	
Level of Action	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 storr should be monitored until repairs/reconstruction can be initia taken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limi protection from a major coastal store.	g, spalling, ure has und possible n. Structure  ted. Actions again full storm. ned. protection s taken to ts for full	Description	Inshore Structures Present wi potential for Significant Infrast	
Structure Image 042-M06-009-03B-		cture Document	ts:		

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M06-009-03B-200

Property Owner:		Location:	- Manager Manager Manager (nab 1956 15 th Air Stiff Shall Add Al Juddi	Date:
Local	Mary Mill Mary 11 over 12	Town Landi	ng	8/16/20
Presumed Structur	re Owner:	Based On Co	omment:	,
Local	The second control of	Property Ov	ate to take a control of the control	The state of the s
Owner Name:		,		Estimated Bases structure (B. 1997)
Marshfield	/	Edillest Stru	cture Record:	Estimated Reconstruction/Repair Cos \$21,622.0
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRESENTAL AND A PROPERTY OF A STATE AND A	e disidilasi jupi ilmo dialase vilas MA-60,3-4 v. dilaversalveskilableva rejeva <u>vasilas vaa v.h. vasilasi</u> mol montajavaezasasassassa vaa disavaesu varilasi kandininini liivo e jeve parila substantividas	Accounts to Charles and Account to Charles an
	Elevation: FIRM Map Zon			
180	1	AE .	10	The second second
	NAVD 88	Feet N		
Primary Type: Revetment	Primary Material: Concrete	Primary Height:	amber in a	
	,	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Heig	ıht:	The same of the sa
	1			
Structure Summan This structure is th		ramp and cidoualle	chow minor weeth	ring and are generally in good condition.
The out doctar of 15 th	io condicte town boat famp, The	e ramp and sidewalls	Show million wearie	and are generally in good condition.
Condition	В			
Conaition Rating	Good		Priority	II Low Priority
Level of Action	Minor		Rating Action	Future Project Consideration
Description	Structure observed to exhibit v		Description	Inshore Structures Present with Limited
	problems, superficial in nature. to landform is present. Structi	Minor erosion ure / landform	•	potential for Significant Infrastructure Damage
	adequate to provide protection coastal storm with no damage.	from a major		
	to prevent / limit future deterior	ation and extend		
	life of structure.			
The second of th	ne de tille ståre tille e fri det skille menning registrefoldelik hitte file file frightener risere hittefall i vile indektion Hitter file vilk tiller i till til vermigstrefolden svi för mer fillting med folket för styddig vilkgemylde in Jappage, symme	enformationation arminimizaritaine italiaakinkinkistä tämistä Eroperior jortaksin jorta aisaatta. Projektivatiokinkinkinkinkinkinkinkinkinkinkinkinkink	ico oblitim comprese provincia, cite ribidi de Espirilo de Papirilo de Papiril	
tructure Image	es: S	tructure Docume	ents:	•
42-M06-009-03B-				

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M06-009-03B-300

Property Owner:	kendermelder vil freille zeiten, die rijk vir der der der der derekendere, nemmerktrond is in hill bedielde dam en och find, stateljermen og grejer de bedielde	Location:	no Produktelia Kalabada (I <sub>SA</sub> yeran A.A., erepe <sub>t</sub> irk flatterika arteanir -	Dai	e:
Local		Town Landing			8/16/2006
Presumed Structur	re Owner:	Based On Comp	nent:	1	
Local		DCR - Contract	Marie Company of the	and the state of t	30 (8 A V. 9) · · · · · · · · · · · · · · · · · ·
Owner Name:		Earliest Structur		Estimated Dance	
Marshfield	/	Earliest Structur	1959	Estimated Recon	struction/Repair Cost: \$21,120.00
	i podrabi da karajago ku 134 eteknika inan karajago ku 134 eteknika inan kalajaren 150 ko internationale da ka Karajaren 150 ku 150	Auditivide von vielekseler augstwatels 1627/000000000000000000000000000000000000	h. Note tru in video tradición un note un material proprieta de protecto establista de protecto de constituiro de Establista de materialmente francisco de como de constituiro de constituiro de constituiro de constituiro de c	ly yelle his her yelde and the effective segment of all minimals for a Para of her stable his delating garga year. And the day have yelde garga year her bed that day have yelde garga year. And the delating garga year have been described and her will be a second of the day of the second of the day of the second of the day of the second of the second of the day of the second of t	del Alexandrik i Jangsolom adalassi Alexandrika and se yaya atau sa yaya ya sa sa sa sa ya ya ya sa sa sa ya s Alekandrik 1800 Alexandri yandi Chalmadhan a sa yaya atau sa
ength: Top E	Elevation: FIRM Map Zone:  10 AE	FIRM Map Elevation		A STATE OF THE STA	Acres 1
	NAVD 88	Feet NGVD			
			,		ARTH
Primary Type: Bulkhead/ Seawall	Primary Material:  Concrete	Primary Height: Under 5 Feet	-		
Secondary Type:	,			1000	
secondary Type.	Secondary Material:	Secondary Height:			
Structure Summan					
	small concrete seawall topped with	timber wale. This wa	all lies behind the	main pier. There is minor snall	li <b>n</b> a evident
				There is manor span	ing evident.
Condition	В		Priority	li	
Rating	Good		Rating	Low Priority	
Level of Action	Minor		Action	Future Project Consideration	
Description	Structure observed to exhibit very problems, superficial in nature. Mit 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 n a major tions taken	Description	Inshore Structures Present v potential for Significant Infra	with Limited structure Damage
tructure Image 42-M06-009-03B-:		cture Documents			
		*			

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M06-009-03B-400

Property Owner:	urtere ynngrum 4 Artere illeka o'r ein daine indirekinderald howdi na yn darwyd daife' Llordrif 4 Mah daiddiad a fraith ddirektaura ann air ba	Location:	n Malaista ta sheelada aa galaa aa ta galaa aa ta galaa aa aa ta galaa ah a	da aanu alak aan 46 to da u haku ruu kuru uu kuru aan ka gaaree kuru aan uu kuru uu kuru uu kuru uu kuru uu ku D	vate:
Local		Town Landing			8/16/2006
Presumed Structure	e Owner:	Based On Com	ment:	•	
Local	The state of the s	DCR – Contrac	ct Drawings	The second secon	
Owner Name:		Earliest Structu	ıre Record:	Estimated Rec	onstruction/Repair Cost:
Marshfield	/		1955		\$141,372.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation		derade gate er (enegations) in hallswest in mour vermenten dan den dan intelligent in de set an de set de secu An dere de set gette de set de se An de set de	uus yddinodd, name ddinaddigddddigddigddigddigddigddig y y y 19 mae y 29 feb y 20 o 20 o 20 o 20 o 20 o 20 o 2 Ddinamenaeth y ddinaddigddigddigddigddigddigddigddigddigddi
425	10 AE	AT THE RESERVE OF THE PARTY OF	10		
Feet Feet N	IAVD 88	Feet NGV	'D	Addition to	
Primary Type:	Primary Material:	Drimany Hoights			Political Park
Revetment	Stone	Primary Height: Under 5 Feet	_		
•		,		<b>对外</b> 工业类	
Secondary Type:	Secondary Material:	Secondary Height			* * * * * * * * * * * * * * * * * * *
Structure Summary	small stone revetment alongside a r	narch This front -	ho north and aftil	o parking let for the terms	tanan Tarah
the revetment is se	everely weathered and the structure	has come unravele	d for most of its le	ength.	at ramp. The stone in
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Considerat	tion
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structut to withstand major coastal storm wonderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a r storm. Actions taken to provide admaterial for full protection and extending the structure of the structure of the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient n ajor coastal dition	Description	Inshore Structures Presei potential for Significant In	
Structure Image		icture Documen			

### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M06-010-001-100

Property Owner:		Location:	PBBS E. Saigh-veiler <sup>ing</sup> (prieft: "safri (PSBBS)   Offedbirks; "Pleyd-V. Jis. 49. veilede Oppedbryndere Verrede (p	on-current assest comits in the cultimate in property on consistent property for the cultimate and the	Date:
Local		Town Land	ng		8/16/2006
Presumed Structur	e Owner:	Based On C	omment:		
1					
Owner Name: Marshfield	,	Earliest Stru	cture Record: 1959	Estimated Rec	construction/Repair Cost: \$425,040.00
Feet Feet I Primary Type: Bulkhead/ Seawal Secondary Type: Structure Summar This structure is a	Secondary Material:	Feet N Primary Height 5 to 10 Feet Secondary Height	10 GVD : ght:	ter line show spalling and ero	osion. Some blocks
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may edeterioration, section loss, coundermining, and/or scour. Sto withstand major coastal st moderate damage. Actions t structure to provide full prote coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline duri storm. Actions taken to provimaterial for full protection an	racking, spalling, Structure adequate form with little to aken to reinforce ction from major ing life of wave damage to ay not be sufficient ng a major coastal de addition	Priority Rating Action  Description	III  Moderate Priority  Consider for Active Proje Listing Inshore Structures with p Infrastructure Damage ar Residential Dwellings ( < 100 feet of shoreline)	otential for nd/or Limited
Structure Image 042-M06-010-001- 042-M06-010-001-	100-PHO1A.jpg	Structure Docume		POSED 042-M06	-010-001-100-DCR1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-017-012-100

Local Presumed Structure O Local Owner Name: Marshfield Length: Top Eleva	wner:	Ocean St.  Based On Com  DCR – Contract  Earliest Structu	t Drawings ire Record:	8	/16/2006
Local  Owner Name:  Marshfield  Length: Top Eleva	wner:	DCR – Contrac	t Drawings ire Record:	Estimated Reconstruction/Repa	
Owner Name: Marshfield .ength: Top Elevi	/	DCR – Contrac	t Drawings ire Record:	Estimated Reconstruction/Repa	
Marshfield ength: Top Eleva		Earliest Structu	the state of the s	Estimated Reconstruction/Repa	
Marshfield ength: Top Elevi		Lariest 3d deta	the state of the s	Estimated Reconstruction/Repair Cost \$696,696.00  of the structure. The head of the groin is completely  Il  Low Priority  Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage	
The second second	Account of my control of the control		1940	\$696	No abstract Marine of
580				August programment conductor and MARIA CHARLES AND COLOR TO THE COLOR AND CO	
Cont. C. Lane	19 VI	1	22		
Feet Feet NAV	D 88	Feet NGV	D		
rimary Type: Groin/ Jetty	Primary Material:	Primary Height:			
	Stone	5 to 10 Feet			
econdary Type:	Secondary Material:	Secondary Height:	_		
				200	
tructure Summary : his is a stone groin. nraveled.	The sideslopes and crest are u	ınraveled for a majorit	y of the length of	the structure. The head of the groin is comp	letely
Condition C			Priority	·	
ating Fa			Rating	Low Priority	
erer by Menon	oderate tructure is sound but may exhil		Action		
ur to m st cc st la to st	eterioration, section loss, crack adermining, and/or scour. Struct withstand major coastal storm oderate damage. Actions take ructure to provide full protection eastal storm and for extending ructure. Moderate wind or was rufform exists. Landform may rufform exists. Landform may ruffully protect shoreline during a form. Actions taken to provide a aterial for full protection and exterial full protection and exterior full prot	cture adequate with little to n to reinforce n from major life of ve damage to not be sufficient major coastal		potential for Significant Infrastructure Dan	nage
ructure Images:		ructure Document			
12-M08-017-012-100	-PHO1A.jpg M/	NO NO	V. 1940 PRO	POSED SHORE 042-M08-017-012-100-D0	R1A
			•	, _ ,	

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-017-012-200

		Location:	esse en amerikan 175 i stadstristine in denstristine 2000 (AMA Jecomolise	Date:
Local		Ocean St.		8/16/2006
Presumed Structur	e Owner:	Based On Com		-1
		Property Own	ersnip	
Owner Name: Marshfield		Earliest Struct	Marian Control of the Control	Estimated Reconstruction/Repair Cost:
- Indistinctu	* Committee of the Comm	1. kil dravovatelekovatel (* c.c.) ** "Schlikova ikil krevetelov, ** rol, ** s professori c. rodova v. r. s	0	\$87,087.00
145	levation: FIRM Map Zone: 19 VE IAVD 88	FIRM Map Elevati	22	
Primary Type: Revetment	Primary Material: Stone	Primary Height: 5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height	<u>:</u>	
Structure Summary This structure is a weathering.		and cobble beach.	The sideslopes and	e mostly intact while the armor stone exhibits strong
Condition Rating	C Fair		Priority	III Moderate Priorite
Level of Action  Description	Moderate Structure is sound but may exhibit	it minor	Rating Action	Moderate Priority  Consider for Active Project Improvement Listing
Description	deterioration, section loss, crackit undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a storm. Actions taken to provide act material for full protection and extending a storm.	ng, spalling, ture adequate with little to to reinforce from major fe of e damage to ot be sufficient major coastal ddition	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings ( <1 dwelling impacted / 100 feet of shoreline)
Structure Image 042-M08-017-012-2		ucture Documen		

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-017-012-300

Property Owner:	eliteraturilet – e verkullan eliteralan kaingannin igan, inagaign	ovahintinisi ahtili ahtili kalikulan kalikulan kalikulan kalikulan kalikulan kalikulan kalikulan kalikulan kal	Location:	eticil m <sup>a</sup> dinikandi ilu-njugineh diriphyny y ö hig rekildidiannihdaelingula <u>isi u</u>	enamentati o e deletta halmaasa uusiinkaan säärine vastuvat vastu vastu kastus enamentaluse vastuurin vastuuristatetaat tuu Date:	bingspikes if we like you are supplying a first own to be a supplying the supplying th
_ocal		The second secon	Ocean St.			8/16/2006
Presumed Structure	e Owner:		Based On Com	ment:	μ	
_ocal			DCR - Contrac	ct Drawings		The state of the s
Owner Name:			Earliest Struct	ire Pecord	Estimated Reconstru	uction/Donnie Coate
Marshfield		/	Edillest Stract	1940	LSumateu Reconsul	\$55,255.00
	levation:	FIRM Map Zone:	FIRM Map Elevati		All presents and the different obstacled to the design and anticological depolaries for the design of the principle of the design and anticological depolaries for the design of the des	a declarated by Speley (Mely and reason and an activation of the second and activation of the second and activation of the second and activation of the second activation o
130	19	VE	1	22		
	IAVD 88		Feet NGV	'D		
Primary Type: Bulkhead/ Seawall	AND AND ADDRESS OF A	ary Material: crete	Primary Height: Under 5 Feet			
						<u> </u>
Secondary Type:	Secor	ndary Material:	Secondary Height	<u> </u>		
Structure Summary						
Rating Level of Action Description	deterioration undermining to withstand moderate da structure to p coastal storn structure. M landform exi to fully prote storm. Action	sound but may exhibit in, section loss, crackin, and/or scour. Structumajor coastal storm warmage. Actions taken to provide full protection in and for extending life loderate wind or wave sts. Landform may notest shoreline during a man taken to provide addrull protection and extending protection and extending the section of the sectio	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Rating Action  Description	Moderate Priority Consider for Active Project Imp Listing Inshore Structures with potentia Infrastructure Damage and/or L Residential Dwellings ( <1 dwel 100 feet of shoreline)	al for imited
tructure Image 42-M08-017-012-3			cture Documen			Market was and program to the control of the contro

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-019-003-100

Property Owner:		Millia la Caldina tra a region y region y filos Prima para a la caldina de la caldina	Location:	AND Annie Belder Armin mie Eginglie jette gener fruhlisse gid det "in neignach	der 40 4 de filosophe universi del Fundrissia de avenitado e estado e describido de coloquidad accisidad	Date:
Local			Ocean St.		and the second second	8/16/2006
Presumed Structur	e Owner:		Based On C	omment:		,
Local	and the second s	100 THE CASE OF THE PARTY OF TH	DCR - Con	ract Drawings		an and the state of the state o
Owner Name:			Farliect Str	icture Record:	E.→	imated Reconstruction/Repair Cost:
Marshfield		7	Lamest 3tr	1946	ESC	\$417,450.00
e de la companya del companya del companya de la companya del compa	The State of	de ne des en des sels sels sels des des en d		et distributa del del confederción, ser mandal distributa escuapa conseleçata que tam minimistra contra esta esta esta esta esta esta esta est	AGAR V. 186 BAZ G. SAN ARABANISANA	radioanie de la consta jugalin national de la company (del administration de la constantina del constantina de la constantina del cons
		IRM Map Zone:	FIRM Map Elev			
550 Fact N	14	VE	1	20	a FT	
	NAVD 88		Feet N			
Primary Type: Bulkhead/ Seawall	Primary I Concrete		Primary Height 5 to 10 Feet	•		Tanyon And Tanyon
	•		•			
Secondary Type:	Secondary	/ Material:	Secondary Hei	ght:		
turishing C						The same was
Structure Summan		ronted by a cobble	heach. The no	rth and of the wa	Il is covered to the cre	est by the beach while the south
end has no fronting	<b>g beach and the to</b>	e of the wall is ex	posed. There is	cracking and spa	lling along the wall ar	nd the base of the wall is eroded.
ne south end of t	he wall would ben	efit from a cobble	nourishment.			
Condition	C			Priority	IV	
Rating	Fair Moderate			Rating	High Priority	Int Duty 10
Level of Action  Description		d but may exhibit	minor	Action		lext Project Construction Listing shore Structures with Potential
Jeser (puon	deterioration, sec undermining, and to withstand major moderate damag structure to provi coastal storm and structure. Moder landform exists. It to fully protect sh storm. Actions ta	ction loss, cracking dor scour. Structure coastal storm we ge. Actions taken to de full protection for extending life tate wind or wave coreline during a maken to provide addrotection and extended.	g, spalling, ire adequate with little to o reinforce from major e of damage to be sufficient lajor coastal dition	Description	for Infrastructu Density Resid	ure Damage and/or Moderate ential Dwellings (1-10 dwellings ) feet of shoreline)
tructure Image 42-M08-019-003- 42-M08-019-003-	100-PHO1A.jpg	Stru  MA E  MA E	PW	MAY 1940 P SEPT 1941 P	ROPOSED ROPOSED RAMP, REPAIRS TO	042-M08-019-003-100-DCR1A 042-M08-019-003-100-DCR1B 042-M08-019-003-100-DCR1C
		MA D	PW	OCT. 1946	ROPOSED SHORE	042-M08-019-003-100-DCR1D

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-034-003-100

roperty Owner:  ocal  resumed Structure  ocal  owner Name:  Marshfield  ength: Top Ele	e Owner:	Location: Ocean St.  Based On Cor		Date:	8/16/200
resumed Structure ocal Owner Name: Marshfield	e Owner:				
ocal Owner Name: Marshfield	e uwner:	Based On Cor		: *	0/10/2000
Owner Name: Marshfield		1505			
Marshfield		DCR – Contra	ict Drawings		
entre de la companya del companya de la companya de la companya del companya de la companya de l		Earliest Struct	The second second second	Estimated Reconstruct	We are all all the way to be a second and the
enath: Top Fl			1946		\$180,180.00
angun IOP Li	evation: FIRM Map Zon	e: FIRM Map Elevat	entalistikujumististi jaistos (1900) etalojos kirkloskiatikos kirilininus in kirilininus kirilininus kirilini Kallininkos kirilininkos kirilininkos et Labaris Hartis keeletaksi kirilinintalisentaan kirilinin kirilinin 1001:	r V - volt. Aptentificioni (Aggressia del Control del Agriculturio del Agr	estation/herory
150	The second secon	VE	20		
Feet Feet N	AVD 88	Feet NG	VD		
rimary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	5 to 10 Feet		· · · · · · · · · · · · · · · · · · ·	
econdary Type:	Secondary Material:	Secondary Heigh	t:		
tructure Summary					Secret 1
his is a short stone	e groin. The sideslopes along t	he base <mark>are coming u</mark> n	raveled. Otherwise	e the structure is in fair condition.	
Condition	С		Priority	III	
ating	Fair		Rating	Moderate Priority	
evel of Action	Moderate		Action	Consider for Active Project Impro	vement
Description	Structure is sound but may exideterioration, section loss, cra		Dagarintian	Listing	for
	undermining, and/or scour. Str	ucture adequate	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited	
	to withstand major coastal stormoderate damage. Actions take	m with little to en to reinforce		Residential Dwellings (<1 dwellings)	ig impacted /
	structure to provide full protect	ion from major			
	coastal storm and for extendin structure. Moderate wind or w	ave damage to			
	landform exists. Landform may to fully protect shoreline during	not be sufficient			
	storm. Actions taken to provide	addition			
	material for full protection and	extended life.			
What is a part of the state appearance production	EDDM-KINDER V. A. WEILE BEGEBE EINE EINE ANDER EINE BERTEILE BEGEBE VON AUS WEILE EINE GESCHE VON AUS WEILE EI MEN VON TEILE BETEILE BETEILE BESTELLE BERTEILE BERTEILE BERTEILE BESTELLE BESTELLE BETEILE BESTELLE BESTELLE MEN VON TEILE BETEILE BETEILE BETEILE BESTELLE BERTEILE BESTELLE BESTELLE BESTELLE BESTELLE BESTELLE BESTELLE	өнүүшүйүн Мүзийүн Мүтүр Аутун Тайын Тайый ол балый байгаланга бишүнүнүн байча навалдагана Айтун Музикин Байтын Тайый тайын байч Мүзийн Артун Тайый Тайын Артун Тайын Аутун Тайын Артун Тайын Артун Байлан Айтун Тайын Тайый Та	mikkenin promovi virt sinn tristi talanskaltinasian sai sidaphavat pigavahinny k Musimuvu-Vissat vir, n sakka tristanasian ku ann situadava said avakanas	efterfandstammenhale engefals fragefend at die verlandstammenengegebenere pyter 201 200 zeile als Verlandstammenengeper begen der die Statische und der der der der der der der der der de	d allustrations are as a segment of the second of the seco
ructure Image	s:	Structure Documer	nts:		
12-M08-034-003-1	00-PHO1A.jpg	MA DPW O	CT. 1946 PRO	POSED SHORE 042-M08-034-003	3-100-DCR1E
		-			

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-042-002-100

Property Owner:		Location	1:	- The second	Date:
Local		Ocean St.			8/16/2006
Presumed Structur	e Owner:	Based On	Comment:		,
Local	Company of the second s	DCR - Co	ntract Drawings		a second particular and the second second
Owner Name:			tructure Record:	-	ichimated Basenshautian/Bassis Casts
Marshfield	The second secon	Larilest St	194		stimated Reconstruction/Repair Cost: \$466,785.00
		de van de gelege van de de kande de d	is («10°stataniki000) plannik (par iz-1-44), saktifik (174 izk-10) dalainakan Inanokako mendikenimak (perio-1-46) kantariakeni	n de la companya del companya de la companya del companya de la companya del companya del companya del companya de la companya del com	de Sporme kindernder er in der Heinholde Anderforenze genotzen zum zur Gebreicht der Anderson zu der Geber der Anderson zu d
The state of the s	the state of the s	Map Zone: FIRM Map Ele	100	ELECTION AND	
615	14	VE	20		
Feet Feet N	NAVD 88	Feet	NGVD		
Primary Type:	Primary Mate	Maria de la companya del companya de la companya de la companya del companya de la companya de l	ht:		
Bulkhead/ Seawall		5 to 10 Feet			
Secondary Type: Other	Secondary Ma	terial: Secondary He	eight:	A DIET TO	
	Stone				
Structure Summan					
n good physical co	ondition. However, the	e toe of the wall is becoming	exposed along a	large section.	only minor cracking and is generally
Condition	C		Priority	IV	
Rating	Fair Moderate		Rating	High Priority	
Level of Action  Description	Structure is sound bu	it may exhibit minor	Action		Next Project Construction Listing nshore Structures with Potential
<i>p</i>	deterioration, section undermining, and/or to withstand major comoderate damage. A structure to provide f coastal storm and for structure. Moderate landform exists. Land to fully protect shorel storm. Actions taken	n loss, cracking, spalling, scour. Structure adequate pastal storm with little to actions taken to reinforce full protection from major rextending life of wind or wave damage to dform may not be sufficient line during a major coastal	Descripti	for Infrastruct Density Resi	sture Damage and/or Moderate idential Dwellings ( 1-10 dwellings 00 feet of s horeline)
Structure Image		Structure Docur		Admitted British - MED TA Make a many mengdingingin di Add Add Admitted British British Admitted British Adm	
42-M08-042-002-	100-PHO1A.jpg	MA DPW	FEB. 1945	PROPOSED	042-M08-042-002-100-DCR1A
		MA DPW	MAY 1952	PROPOSED SHORE	
		MA DEOF	JAN. 1956	PROPOSED SHORE	
		MA DEQE	MARCH 198	PROPOSED SHORE	
		MDPW	MAR 1976	PROPOSED SHORE	
		MADPW	FEB 1956	Proposed Sand Fill,	042-M08-042-002-100-COE1/

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-051-004-100

Property Owner:		Location	n:		Date:
Local		Ocean St		West of the second	8/16/2006
Presumed Structure	e Owner:	Based On	Comment:		· · · · · · · · · · · · · · · · · · ·
Local	THE RESERVE TO SERVE THE PARTY OF THE PARTY		ontract Drawings		
		3			
Owner Name: Marshfield		Earliest S	tructure Record:		Estimated Reconstruction/Repair Cost:
riai si iliciu	COMPANIES OF THE COMPAN		193	30	\$910,800.00
Length: Top E	levation: FIRM Map Zon	e: FIRM Map El	evation:		From Carlot and Annual Control and Control
1200	14	VE	20		
Feet Feet N	IAVD 88	Feet	: NGVD		Transition of the state of the
Primary Type:	Primary Material:	Primary Heig	ht:		
Bulkhead/ Seawall	Concrete	5 to 10 Feet	A STATE OF THE PARTY OF THE PAR		三毛,并进步大批。
Secondary Type:	Secondary Material:	Secondary H	eight:		
			,		
Structure Summary	<i>(</i> :				
The structure is a description is a description of the second of the sec	concrete seawall fronted by a co	bble beach. There	e is cracki <b>ng a</b> nd	spalling evident	t and some large cracks which have been
Condition	C		D		
Rating	Fair		Priority Rating	IV High	Priority
Level of Action	Moderate		Action	_	ider for Next Project Construction Listing
Description	Structure is sound but may ext deterioration, section loss, cracundermining, and/or scour. Structure to withstand major coastal stor moderate damage. Actions tak structure to provide full protect coastal storm and for extending structure. Moderate wind or wall landform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and structure.	cking, spalling, ucture adequate m with little to en to reinforce ion from major g life of ave damage to not be sufficient a major coastal addition	Descript	for In Dens	Value Inshore Structures with Potential frastructure Damage and/or Moderate ity Residential Dwellings (1-10 dwellings cted / 100 feet of s horeline)
Structure Image 142-M08-051-004-1 142-M08-051-004-1	00-PHO1A.jpg N	tructure Docur MA DPW DEP CH.91	MAY 1932 SEPT 20 19	PROPOSED PLANS	042-M08-051-004-100-DCR1A 042-M08-051-004-100-LIC1A
	ĮΛ	MARSHFIELD D	AUG 1995	SEAWALL RE	PAIR 042-M08-051-004-100-TWN1A
	_	1DPW	MAR 1976	PROPOSED :	SHORE 042-M08-051-004-100-TWN1B

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-051-009-100

Property Owner:	m <sup>artin</sup> saratik watangangangangangang iki sepang inining melapangan pelapan sebagai sebagai mengangangangan sebagai sebaga	Location:	ink krop til har ville kääller elle vill käälleri elle Emil in passija keloulloinigus ellesti.	n-som to the character that the latest and the character and the c	Anglight (1995) and a second of the second o
Local	The second secon	Ocean St.			8/16/2006
Presumed Structure	e Owner:	Based On Comr	nent:	- 1	
Local		DCR - Contract		Participation of the state of t	COLUMN TO STATE OF THE STATE OF
Owner Name:		Earliest Structure Record:		Estimated Reconstruct	tion/Renair Costs
Marshfield	arshfield		1946	Listinated Reconstitution	\$66,396.00
the second second	levation: FIRM Map Zone:	FIRM Map Elevatio		V V V V V V V V V V V V V V V V V V V	
100	VE	2			
	IAVD 88	Feet NGV	)		A C
Primary Type: Groin/ Jetty	Primary Material:	Primary Height:		- The second second	C.
	Stone	Under 5 Feet			
Secondary Type:	Secondary Material:	Secondary Height:	-		- <u></u> -
Character C					
Structure Summary	short stone groin. The sideslopes a	and crest are mostly	ınraveled		The second second second
o od detaile is d	onore otone groun. The sidesiopes (	and Great are mostly t	and aveleu.		
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Consideration	
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 of ully protect shoreline during a storm. Actions taken to provide act material for full protection and extending for the storm of the storm of the storm.	ng, spalling, cure adequate with little to to reinforce from major fe of e damage to ot be sufficient major coastal ddition	Description	Inshore Structures Present with L potential for Significant Infrastruc	
Structure Image 042-M08-051-009-		ucture Document		POSED SHORE 042-M08-051-00	9-100-DCR1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M08-051-014-100

Property Owner:		Location:	liddidateldhioreumellarth Vard-siint o'r Felikelaet I bhiolifundinor lanaeelalla	abhallina-iroku net-266-946/bindale-346/nddewildowildowildowildowildowildowildowildo	Date:
Local	AND THE RESERVE OF THE PARTY OF	Ocean St.		The state of the s	8/16/200
Presumed Structure	e Owner:	Based On Co	omment:		1
Local			ract Drawings		The state of the s
Owner Name:		Farliest Stru	cture Record:	Fcti	mated Reconstruction/Repair Cost:
Marshfield	/	Edinose sera	1952		\$68,970.00
ength: Top E	levation: FIRM Map Zone:	FIRM Map Elev		100 ft his ing dan ng tronde ki telanga) - to pandad of trons na ngangka telangan telangan ing pangangan na ngangka telangan na ngangka telangan na ngangka telangan na ngangka telangan na ngan	Additions alman hut de verblas abdet de la springeliere de la principal de la springeliere de la servicio de l La servicio de la servicio della servicio del
55	14 VE	TIKIT Hap Elevi	20		
Feet Feet N	IAVD 88	Feet N	GVD	1	
Primary Type:	Primary Material:	Primary Height:			
Bulkhead/ Seawall	the second secon	10 to 15 Feet			
econdary Type:	Secondary Material:	Secondary Heig	jht:		
tructure Summary	<i>t</i> :			11 TO 12	
vident.	c		Priority	IV	
This structure is a evident.  Condition Rating	C Fair		Rating	High Priority	
Condition Rating Level of Action	С	ng, spalling, ure adequate with little to to reinforce from major fe of e damage to bt be sufficient major coastal didition	•	High Priority Consider for N High Value Ins for Infrastructu Density Reside	ext Project Construction Listing hore Structures with Potential re Damage and/or Moderate ential Dwellings (1-10 dwellings feet of shoreline)
evident.  Condition	Fair Moderate Structure is sound but may exhibit 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 fully protect shoreline during a storm. Actions taken to provide act material for full protection and extending for full protection and extending the storm.	ng, spalling, ure adequate with little to to reinforce from major fe of damage to to be sufficient major coastal didition ended life.	Rating Action Description	High Priority Consider for N High Value Ins for Infrastructu Density Reside	hore Structures with Potential re Damage and/or Moderate ential Dwellings (1-10 dwellings

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M09-001-007-100

Property Owner:	and the same of th		Location	1:	a men managara managaran sacan Pengelanda puna-nusa nilaban kedalah di Salah	Date:
Local		A CONTRACTOR OF THE CONTRACTOR	Foster Av	e.		8/16/2006
Presumed Structur	re Owner:		Based On	Comment:		
Local		7 VANDA	DEP - Ch	91 License	all and the second seco	the second secon
Owner Name:			Farliect St	tructure Record:	E.	ctimated Percentruction/Pensis Code
Marshfield		/	Lunicat 30	197		stimated Reconstruction/Repair Cost: \$527,472.00
		inninkliga e parovir vijelida (a fireklala adalah salah salamanlaran, erengazi yayang dipinda dan bahasi kalam Harafari kanga salam diri salam diri salam dalah salam salamanlaran salam salaman salah serikan salah bahasi s	eldikkintikkatas ekoporatela (2000-1944 eldikatifa kipedisakonanan edikuar ka 1276 pilgi ekoporatelan on milita aleste (2001-2004) eldikatifa kipedisakon eldikatifa kipedisakon eldikatifa kipedisakon	Po stalečnjenični vengologičnjego udobu zaviso ne hozistenični stalecich dipotenio s njegovo politic Bendyka nem kogo nitaje njegovo semala zavistanich de demonstrate pri komunicaza v secanj	Messin dromens of 60 february 64 plane of the 62 Mess of the Australian Association of the Association of th	
	levation:	FIRM Map 2	the second of the second of the second			A CONTRACTOR
1665	19		VE	17		A . M
Feet Feet N	NAVD 88		Feet	NGVD		
rimary Type:		Primary Material:	Primary Heig	Annual Control of the		
Bulkhead/ Seawall		Concrete	10 to 15 Fee	t	12	TO AVENUE
Secondary Type:		Secondary Material:	Secondary H			
Revetment		Stone	Under 5 Feet			
Structure Summan					Was and Call	nent at toe appear recently
Condition Rating Level of Action Description	B Good Minor Structu problen to landf adequa coastal to preve	re observed to exhibns, superficial in nature to provide protect storm with no dama ent / limit future detertructure.	it very minor ure. Minor erosion ucture / landform ion from a major ge. Actions taken	Priority Rating Action Descript	ion High Value Ir for Infrastruc Density Resi	Next Project Construction Listing nshore Structures with Potential ture Damage and/or Moderate idential Dwellings (1-10 dwellings 00 feet of s horeline)
	en en stad en	Addelatus metroessaportragitoridadus (asterioridas compositoridas (articologias compositoridas). Addelatus metroessaportragitoridadus (asterioridas compositoridas (articologias compositoridas compositoridas (asterioridas compositoridas compositoridades compositori	85 Filliant had handle backball-responsesses established describbasses barbasses and second s	NIII and NIII (17 May apply carried fold distillation to think collection for the popular and	ert derlich vollsche sollen der voll imme geringstate bledet kan det majstener zweich sollen der der der der Geschaft terme unter mit ihr kan der	erständattat in hunde de enge i 1948 für såk ha tilkka kilde enger grade til en til en en en en en en en en en Manter der en
tructure Image 42-M09-001-007-		1A ing	Structure Docur		Innonces out	1040 Mgg 004 000 100 000
42-M09-001-007- 42-M09-001-007-			MA DEQE	SEPT. 1970	PROPOSED SHORE	
TA-17103-00 1-00/-	יטט-רחט	rb.jpg	MARSHFIELD D	MAY 2001	SEAWALL	042-M09-001-007-100-TWN1A
			MDDM	OED 4070	1000000	
			MDPW	SEP 1970 DEC 2002	PROPOSED Foster Ave	042-M09-001-007-100-TWN1B 042-M09-001-007-100-COE1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M09-006-009-100

Key: community-map-block-parcel-structure

Property Owner:	orrownen (1960–1960) og skalidet blillede skrig i Arthebaddeldilang samelysigen eigelysis i ellipti	kti (* Prisiden authoristan + Pris <sup>k</sup> n (Art-vans a die tah Vilator) + 19 deproprie	Locatio	n:	ta katan Talan mendelerik Adalan kelendi dan dinendi kaman pencah dalam kelenda seri pen	Net vetleblisss filmersennen untveldigen vetlet.	Date:
Local		- 100 to 177, 97 miles	Ocean S				8/16/2006
Presumed Structur	e Owner:		Based Or	n Comment:			
Local		AND THE RESERVE		ontract Drawings			MA CONTRACT TO THE PART OF THE PROPERTY OF THE
			per c	ond act Drawings			
Owner Name: Marshfield			Earliest S	tructure Record:	and the same of th	Est	timated Reconstruction/Repair Cost:
I laisineiu		,		193	30		\$203,346.00
Length: Top E	Elevation: FIR	M Map Zone:	FIRM Map E	levation:	All this feet has been been for the second of the table of table	i Gara de de de desta de desta de desta de desta de despeta en escono en en espera en el como de en especia de A desta del en espeta de la especia de l	weepen zu de Wach deutscheit zu des zu von des 1900 de 1900 de 1900 de 1900 de 1900 de 2000 de
130	13	VE		22			
Feet Feet N	NAVD 88		Fee	t NGVD	8		The same of the sa
Primary Type:	Primary Ma	terial:	Primary Heig	ght:			
Revetment	Stone		10 to 15 Fee	A 100 TO		- E 19	
Secondary Type:	Secondary M	laterial:	Secondary H	leight:		2650	1
					*		
Structure Summan	y:						
This structure is a	stone revetment. Th	ere is significar	nt movement o	of the armor ston	e evident. S	ome armor	stones are displaced and there are
voius evident With	in the armor layer.						
Condition	D			Priority	IV	,	
Rating	Poor			Priority Rating		igh Priority	
Level of Action	Major			Action			lext Project Construction Listing
Description	Structure exhibits a			Descript			shore Structures with Potential
	deterioration, section undermining, and/o	r scour. Struct	ure has		fo D	r Infrastructu ensitv Resid	ure Damage and/or Moderate ential Dwellings ( 1-10 dwellings
	strong risk of signifi failure during a maj	cant damage a	nd possible				D feet of s horeline)
	should be monitore	d until					
	repairs/reconstruction taken to reconstruction						
	capacity to resist a	major coastal s	storm.				
	Landform eroded, s Landform not adequ						
	during major coasta	al storm. Action	s taken to				
	recreate landform to protection from a m	o adequate limi aior coastal sto	ts for full orm.				
	,	_,					
•							
	BEFORE AND THE WITCH MEAN THE STATE OF THE S	el alumnitaristis rassonis sida histoloonis sassa liindekista eesta sassa sassa sassa sassa sassa sassa sassa Printa sida sita sita saa sassa	oraproprosesso dest delentres delendo, mesdan survenca la baser nella filosocia di certa lles Viete de Milla (del conservacida)	and a Arabelin deposit in consiste of a lateral translational behavior in the plant assert section and in the control of the lateral translation and the control of the lateral and the control of the c	olooptimissisissississississississa ka	in 2000 Processor com and a classical devictor and destinancial destinancia destinanc	and the second s
tructure Inco		Cl					
tructure Image 42-M09-006-009-		Stru MA E	cture Docu	ments: NOV 1930	IDDODOS:	-D	040 1400 000 000 465 757
WOO-000-009-	100-F110 (A.Jpg				PROPOSI		042-M09-006-009-100-DCR1A
		MA E		AUGUST 19	PROPOSI		042-M09-006-009-100-DCR1B
		MA E		APRIL 1954		D SHORE	042-M09-006-009-100-DCR1C
		MA		APRIL 1958		D SHORE	042-M09-006-009-100-DCR1D
		MA D		DEC. 1967		D SHORE	042-M09-006-009-100-DCR2E
			SHFIELD D	NOV 1978	PROPOSE		042-M09-006-009-100-TWN1C
		MUD		ADD 1054	PROPOSE	D SHORE	042 MOO OOR OOD 100 TWINI1D
			SHFIELD D	NOV 1992	SEAWALL		042-M09-006-009-100-TWN1E
		MAR	SHFIELD D	NOV 1978	PROPOSE	D STONE	042-M09-006-009-100-TWN1F
and the second property of the party of a second se	and a Complete of the profession of a second occurs on the community of earth	MAD	)PW	DEC 1967	PROPOSE	D SHORE	042-M09-006-009-100-TWN1A

MARSHFIELD D

JUL 2001

042-M09-006-009-100-TWN1B

SEAWALL REPAIR

**Structure Assessment Form** 

Town: Marshfield

Structure ID: 042-M09-006-009-100

Key: community-map-block-parcel-structure

USACE

DEC 2002

Foster Ave

042-M09-006-009-100-COE1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-M09-006-009-200

Property Owner:		Location	:	er y gewong v getter statester och ste film die dahricht der sonibligiske med die geliche minder auf ver	Date:
Local		Ocean St.			8/16/2000
Presumed Structur	e Owner:	Based On (	Comment:		
Local		manage years and	ntract Drawings		
Owner Name:					
Marshfield	7	Earliest Str	ucture Record:		Estimated Reconstruction/Repair Cost: \$812,698.00
	The state of the s	A control of the cont	distribution with reserving an executive processing and the second	Anton Principles Principle, proced dynamic by the inscitute described and described as con-	
Length: Top E	levation: FIRM Map	Zone: FIRM Map Ele	vation:	dermedde saffond <mark>swe</mark> et officerotie, wythiop-rises - asso ask tokas allangers a electrical scale . I jourell	-made-underholder der Nick der Gesteller der Gesteller von der verzeit zweiter der Gesteller (der Gesteller der Gesteller der Verzeit der Gesteller der Gest
1040	13	VE	22	3 9	
Feet Feet N	IAVD 88	Feet I	NGVD		
Primary Type:	Primary Material:	Primary Heigh			<b>建筑</b>
Revetment	Stone	10 to 15 Feet			<b>一个</b>
Secondary Type:	Secondary Material	Secondary He	ight:		
	1				公 通 企工
Structure Summan					
This is a stone rev	etment. There is some mov	rement of the armor layer	er and displaced	armor stones.	
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	y
Level of Action	Moderate		Action	Consider fo	r Next Project Construction Listing
Description	Structure is sound but may 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, c. 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	Descripti	for Infrastru Density Res	Inshore Structures with Potential cture Damage and/or Moderate sidential Dwellings (1-10 dwellings 100 feet of s horeline)
Structure Image 142-M09-006-009-2		Structure Docum MA DPW MA DPW MA DPW MA DPW MA DPW	NOV 1930 AUGUST 19 APRIL 1954	PROPOSED RIP PROPOSED SHOR	
				PROPOSED SHOR	
		MA DPW	DEC. 1967	PROPOSED SHOR	E 042-M09-006-009-100-DCR2E

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N05-001-012-100

THE CONTRACTOR OF THE PARTY OF	wner:			Location	1:		American September 1985 Callenging Age	Date:
Local				Blackman	s Point			8/16/2006
Presumed S	Structure	Owner:		Based On	Comment:			1.
Local	(A-1)			DCR - Co	ntract Drawings		A TOTAL CONTRACTOR OF THE PARTY	the state of the s
Owner New	201			1				South B
Owner Nam Marshfield	ne:		/	Earliest St	ructure Record:		Est	imated Reconstruction/Repair Cost: \$1,489,488.00
A 1,000 and 1,00		**************************************	* The desiration of the contract of the contra	atrictor (diring interest inte		A 19-20Mateuron 8027-4468825668		\$1,703,700.00
ength:	Top Ele	vation:	FIRM Map Zone:	FIRM Map Ele	evation:	SOUND OF THE CHARGE AND		
620		7	VE		20	1		
Feet	Feet NA	VD 88		Feet	NGVD			
rimary Typ	pe:	Primar	y Material:	Primary Heig	ht:			
Groin/ Jetty	у	Stone		5 to 10 Feet			2 1115	
Secondary '	Туре:	Second	ary Material:	Secondary He	eight:			
Structure S		1		j		ĺ		
This structu case of the condition.	ure is a step jetty. The	one jetty whic nere are at lea	h is along the north st two large areas a	side of the inle	et to Green Harbo runk which are s	r. The ar umped ar	mor stone is s nd failing. The	lumped and unraveled along the head of the jetty is in fair
Condition	n l	D			Priority		III	
Rating		Poor			Rating		Moderate Prio	rity
Level of A	2011011	Major			Action		Consider for A Listing	ctive Project Improvement
Descripti			oits advanced levels section loss, crackir	ıg, spalling,	Descripti	on	Inshore Struct	ures with potential for Damage and/or Limited
		undermining, a strong risk of s failure during a should be mon repairs/recons taken to reconsupacity to restandform erod Landform not a during major c recreate landfore	and/or scour. Structing inflicant damage as major coastal stored until truction can be initial struct structure to restruct structure to restruct a major coastal sedequate to provide coastal storm. Action orm to adequate limit a major coastal storm a major coastal storm.	and possible m. Structure ated. Actions egain full storm. ned. protection is taken to its for full				vellings ( <1 dwelling impacted /
	Images	undermining, a strong risk of strailure during a should be mon repairs/recons taken to reconcapacity to restandform erod aduring major corecreate landform from	ignificant damage a major coastal store until truction can be initia structure to reist a major coastal stored, stability threate adequate to provide coastal storm. Action or to adequate lim a major coastal store a major coastal store.	and possible m. Structure ated. Actions egain full storm. ned. protection as taken to its for full orm.	APRIL 1931	PROPO:	Residential Dv 100 feet of she	vellings ( <1 dwelling impacted / breline)
tructure 42-N05-00	Images	undermining, a strong risk of s failure during a should be mon repairs/recons taken to reconscapacity to result and form erod and form not a during major crecreate land for orotection from	ignificant damage a major coastal store until truction can be initia struct structure to reist a major coastal ed, stability threate adequate to provide coastal storm. Action on a major coastal st	and possible m. Structure ated. Actions egain full storm. ned. protection as taken to its for full orm.			Residential Dv 100 feet of she SED JETTY	vellings ( <1 dwelling impacted / preline)

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N06-007-009-100

Property Owner:		Location	):		Date:
Local		Green Ha	rbor Point		8/16/200
Presumed Structui	re Owner:	Based On	Comment:		
Local		and the same of th	ntract Drawings	Array	
Owner Name:				F-	binantad Daganahurutt (D. 1997)
Marshfield	/	Earnest St	ructure Record:	ES	timated Reconstruction/Repair Cost: \$2,846,580.00
	en werden war in 1971 in 1971 were weder de stellende er konstegnion in de den Alle Greeke treisbeleiche site de, gegense zu de stelle de de de stelle de st	titiden it i en - valuella al fraktika mustaatsinataan kai net net alah o aan su Millionikan sentrelin kain konstruati mustaatsila aan akaa aan aksaa suuri sentrelin musta	ndazik bid kenir i ilmi hali di ukumumi dalak 14 dalak kenir kulik 18 dalak bida bida kenir kenir kenir kenir Mali makula 1860 anut Manis kalik kenir kenir kelalam dalak memerikan bahas bida kelalak bahas kenara center k	illinetia katikulukulukulukulukulukulukulukulukulukul	42/5 10/50000
	Elevation: FIRM Map Zone:		and the second s		
1135	9 VI		20		
Feet Feet I	NAVD 88	Feet	NGVD	× 22	
Primary Type:	Primary Material:	Primary Heigl	nt:	7	
Bulkhead/ Seawal	Concrete	10 to 15 Fee	t		
Secondary Type:	Secondary Material:	Secondary He	eight:		A
Revetment	Stone				
Structure Summar					
length of the structure	concrete seawall with a wave retained. Some sections show severe	urn face. There i cracking and ma	s a stone revetment a ior areas of repairs	along the toe. The	re is spalling and cracking for the
Condition	D		Priority	IV	
Rating	Poor		Rating	High Priority	
	Major		Action	Consider for N	lext Project Construction Listing
•					
-	Structure exhibits advanced level deterioration, section loss, crack undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be initaken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Action recreate landform to adequate liprotection from a major coastal storm.	cing, spalling, cture has and possible orm. Structure tiated. Actions regain full al storm. ened. le protection ons taken to mits for full	Description	High Value Instructions  for Infrastruction  Density Resident	shore Structures with Potential ure Damage and/or Moderate ential Dwellings (1-10 dwellings 0 feet of s horeline)
Description  Structure Image	Structure exhibits advanced leve deterioration, section loss, crack undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be initaken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Action recreate landform to adequate liprotection from a major coastal storm.	cing, spalling, cture has and possible orm. Structure tiated. Actions regain full al storm. ened. le protection ons taken to mits for full	Description nents:	High Value Instructions  for Infrastruction  Density Resident	shore Structures with Potential ure Damage and/or Moderate ential Dwellings ( 1-10 dwellings
Description  Structure Image 142-N06-007-009-	Structure exhibits advanced leve deterioration, section loss, crack undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be initaken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Active recreate landform to adequate limprotection from a major coastal storm.	cing, spalling, cture has and possible form. Structure tiated. Actions regain full all storm. Sened. He protection for staken to mits for full storm.	Description  nents:  NOV. 1931  PRO	High Value Infor Infrastruction Density Resident impacted / 100	shore Structures with Potential ure Damage and/or Moderate ential Dwellings (1-10 dwellings 0 feet of s horeline)
Level of Action Description  Structure Image 042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-042-N06-007-009-000-00-00-00-00-00-00-00-00-00-00-0	Structure exhibits advanced leve deterioration, section loss, crack undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be initaken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to provid during major coastal storm. Action recreate landform to adequate limprotection from a major coastal storm.	cing, spalling, cture has and possible orm. Structure tiated. Actions regain full al storm. ened. le protection ons taken to mits for full storm.	nents: NOV. 1931 PRO NOV 1931 PRO	High Value Infor Infrastruction Density Resident impacted / 1000	shore Structures with Potential ure Damage and/or Moderate ential Dwellings (1-10 dwellings of feet of shoreline)

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N06-007-020-100

ner: on: FIRM Map Zone:	Green Harbon  Based On Cor  Property Owr  Earliest Struct	nment: nership ture Record:	Date:	8/16/2006
	Property Owr	nership ture Record:		
on: FIRM Map Zone:	Property Owr	nership ture Record:		- 100 110 100 - 100 To 100 To 100 100 100 100 100 100 100 100 100 10
on: FIRM Map Zone:		ture Record:		
on: FIRM Map Zone:	Earliest Struct	Commence of the Commence of th		
on: FIRM Map Zone:		0	Estimated Reconstructi	and the second of the second o
on: FIRM Map Zone:	an in the programming of the control	tittennakurrikalekselek 19 de 19 a sistandar valantarunik varren fisker er sepuld bildeladis.	head for motivation from the house of the most had the control of	\$413,820.00
	FIRM Map Elevat	ion:	All California per Australia Statishina per American per aparting per dan per	
9 VE		23		
88	Feet NG	VD		
Primary Material:	Primary Height:			
Concrete	10 to 15 Feet			
Secondary Material:	Secondary Heigh	t:	The Person of the	
Stone				
cture is sound but may exhibit rioration, section loss, crackin ermining, and/or scour. Structuthstand major coastal storm werate damage. Actions taken to ture to provide full protection	g, spalling, ure adequate vith little to to reinforce from major	Priority Rating Action Description	High Priority  Consider for Next Project Construction  High Value Inshore Structures with for Infrastructure Damage and/or Infrastructure Damage and Infrastru	h Potential Moderate
form exists. Landform may no lly protect shoreline during a n n. Actions taken to provide ad	t be sufficient najor coastal dition			
	cture Documen	ts:	entre and relative but in the contract of the	and Manufactures and The Second Sec
	Concrete  Secondary Material:  Stone  ete seawall with a fronting toe determine the seawall with a fronting toe determine the second but may exhibit the second service of the second service of the second service of the second service of the second	Secondary Material: Secondary Heigh Stone  Secondary Heigh  Stone  Secondary Heigh  Stone  Secondary Heigh  Reterete Seawall with a fronting toe revetment. There  Serioration, section loss, cracking, spalling, sermining, and/or scour. Structure adequate ithstand major coastal storm with little to lerate damage. Actions taken to reinforce cture to provide full protection from major stal storm and for extending life of cture. Moderate wind or wave damage to form exists. Landform may not be sufficient lly protect shoreline during a major coastal m. Actions taken to provide addition erial for full protection and extended life.  Structure Document	Secondary Material: Stone  Secondary Height:  Stone  Priority Rating Action Description  Perioration, section loss, cracking, spalling, ermining, and/or scour. Structure adequate ithstand major coastal storm with little to lerate damage. Actions taken to reinforce cure to provide full protection from major stal storm and for extending life of cure. Moderate wind or wave damage to form exists. Landform may not be sufficient lly protect shoreline during a major coastal m. Actions taken to provide addition erial for full protection and extended life.  Structure Documents:	Secondary Material:   Secondary Height:   Se

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N07-001-003-100

Carlotte and the same of the same	wner:		Location	n:		Date:
Local			Green Ha	rbor Point		8/16/2006
Presumed 9	Structure O	wner:	Based On	Comment:		
Local	· ·	**************************************	DCR – Co	ontract Drawings	W-100 101 10	
Owner Nam	ne:		Farliest S	tructure Record:		Estimated December which / December Control
Marshfield		/	Lamest Si	193	33	Estimated Reconstruction/Repair Cost: \$896,610.00
A CONTRACTOR OF THE STATE OF TH	And the second s	n mengali menangkan kalandan kalangan pengalik pengan kalandah kenandah kanandah kenandah beradah beradah beradah sebagai pendah beradah beradah kalandah kenandah beradah ber	aller disk kan serial kan	19 mil 17 5 - 1650 4 Obliverin Alexandria, valdrianische Alexandria (sec. 19-16) 18 december 18 decemb	ikumanjannan galugin oler 1888 eta kalifornia izatua kunda an alaun alaun 1880 eta kalifornia izatua kaliforni Bili ili ili ili ili ili ili ili ili ili	
ength:	Top Eleva		The second second		30.500	
715		14	VE	20		Mark Street
Feet	Feet NAV	D 88	Feet	NGVD		
rimary Ty	demand and the same of the same of the	Primary Material:	Primary Heig			
Bulkhead/	Seawall	Concrete	10 to 15 Fee	t		
Secondary	the same of the sa	Secondary Material:	Secondary H	eight:		
Revetment		Stone				
Structure S					There,	e of the wall. The wall exhibits some
Condition				Priority	IV High Pri	ority
Rating Level of A	Faction Mon St de ur to m str cc str to str	air loderate tructure is sound but may exeterioration, section loss, crandermining, and/or scour. Standermining, and/or scour. Standermining, and/or scour. Standerate damage. Actions taructure to provide full protect pastal storm and for extendir ructure. Moderate wind or vandform exists. Landform mainfully protect shoreline durinform. Actions taken to provide aterial for full protection and	acking, spalling, tructure adequate orm with little to iken to reinforce stion from major ing life of wave damage to ay not be sufficient g a major coastal le addition	Priority Rating Action Descripti	High Pri Conside ion High Va for Infras Density	ority or for Next Project Construction Listing flue Inshore Structures with Potential structure Damage and/or Moderate Residential Dwellings ( 1-10 dwellings d / 100 feet of s horeline)
Rating Level of A Description	Action Mon State of the state o	air loderate tructure is sound but may exeterioration, section loss, crandermining, and/or scour. Story withstand major coastal story oderate damage. Actions tarructure to provide full protect pastal storm and for extendir ructure. Moderate wind or windform exists. Landform mainfully protect shoreline durinform. Actions taken to provide aterial for full protection and	acking, spalling, tructure adequate orm with little to iken to reinforce stion from major ing life of wave damage to ay not be sufficient g a major coastal le addition	Rating Action Descripti	High Pri Conside ion High Va for Infras Density	or for Next Project Construction Listing flue Inshore Structures with Potential structure Damage and/or Moderate Residential Dwellings (1-10 dwellings d / 100 feet of shoreline)
Rating Level of A Description	Action Mon State of the state o	air loderate tructure is sound but may exeterioration, section loss, crandermining, and/or scour. Stouthstand major coastal stouth oderate damage. Actions taructure to provide full protect pastal storm and for extending ructure. Moderate wind or windform exists. Landform mainfully protect shoreline during orm. Actions taken to provide aterial for full protection and	acking, spalling, tructure adequate orm with little to iken to reinforce etion from majoring life of wave damage to ay not be sufficient g a major coastal le addition I extended life.  Structure Docur	Rating Action Descripti	High Pri Conside ion High Va for Infra: Density impacte	or for Next Project Construction Listing alue Inshore Structures with Potential structure Damage and/or Moderate Residential Dwellings (1-10 dwellings d / 100 feet of shoreline)

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N07-001-021-100

Property Owner:	fried filter du mit de diagnosis filtres de l'en de l'arroben de le circulat de la company de la company de la fried de titue de la company de	Matagalada Lir dedi in celiphiani	Location:	achdeleidhealathaidhealamaileair leir agus grìog raid-lair cealrairleir ainmeil tr	Date:
ocal			Brant Rock		8/16/2006
resumed Structure	e Owner:		Based On Com	ment:	-
ocal			DCR - Contrac	t Drawings	
Owner Name:			Earliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
Marshfield	/			1940	\$73,828.00
The second second	levation: FIRM Map Z		FIRM Map Elevation	elección chairleachartala deligencimentamentes con consecuentes con consec	
470		VE	2	20	
Feet Feet N	IAVD 88		Feet NGV	D	
Primary Type:	Primary Material:		Primary Height:		
Groin/ Jetty	Stone	1	Under 5 Feet		
econdary Type:	Secondary Material:	. ,	Secondary Height:		
tructure Summary					ing. The sideslopes and crest are in good condition
Rating Level of Action Description	Good Minor Structure observed to exhib problems, superficial in natu to landform is present. Stru adequate to provide protecti coastal storm with no dama to prevent / limit future detei life of structure.	re. Mind octure / I on from ge. Acti	or erosion landform a major ions taken	Priority Rating Action Description	Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage
tructure Image 42-N07-001-021-1		Struc MA DE	cture Document		POSED SHORE 042-N07-001-021-100-DCR1A

#### **Structure Assessment Form**

Town: Marshfield

Structure ID: 042-N07-007-004-100

Property Owner:	11	Locati	on:		Date:
Local		Green	Harbor Point		8/16/2006
Presumed Structure	e Owner:	Based (	On Comment:		
Local	·	DCR -	Contract Drawings	******	The state of the s
Owner Name:		Farliest	Structure Record:	Fe	timated Reconstruction/Repair Cost:
Marshfield		/	1967		\$1,376,133.00
	With All-Productive Education Colorate	estration of 2019. See the first section of the fir	dalme an her elistän dän elektrick valuela sollen enter heralindatussiach i de bit "sich har abdess Am verall is der elistän dalle eliste eliste eliste eliste eliste eliste eliste eliste eliste i sich eliste eliste	etinin-variadia dilikkojo in-valgista anima propada anima para ana ana anima para dilikuwa na anima anima anim Pri a a Printenna dilikuwa na anima na para bara di printenda anima di printenda alibertata anima anima anima	ant feet and do contain for the feet of the second contained and the second of the sec
Length: Top E	levation: FIRM	Map Zone: FIRM Map  VE	Elevation:		
	IAVD 88		eet NGVD		
Primary Type: Revetment	Primary Mate Stone	erial: Primary He Over 15 Fo	TAKE A ME STATE OF		
	•	,			
Secondary Type:	Secondary Ma	terial: Secondary	neignt:		
Structure Summary		and The comment of		CH.	me stones are broken. There are
no areas of major	failure.	and the difful stone has	Sinced along made	ane su acture and so	ine stores are brokert. There are
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action	Moderate		Action		Next Project Construction Listing
Description	undermining, and/or to withstand major or moderate damage. A structure to provide to coastal storm and fo structure. Moderate landform exists. Land to fully protect shore storm. Actions taken	loss, cracking, spalling, scour. Structure adequate pastal storm with little to actions taken to reinforce ull protection from major rextending life of wind or wave damage to dform may not be sufficier line during a major coasta	nt	for Infrastructo	shore Structures with Potential ure Damage and/or Moderate lential Dwellings (1-10 dwellings 0 feet of s horeline)
Structure Image 042-N07-007-004-1		Structure Doc			
J4Z-INU1-UU1-UU4-1	тоо-епота.јрд	MA DPW		PROPOSED SHORE	042-N07-007-004-100-DCR1A
		MARSHFIELD D			042-N07-007-004-100-TWN1A
				SEAWALL REPAIR	042-N07-007-004-100-TWN1B
		MARSHFIELD D	NOV 1978	PROPOSED	042-N07-007-004-100-TWN1C
		MDPW	OCT 1965	PROPOSED SHORE	042-N07-007-004-100-TWN1D

# **Section IV**

**Town of Marshfield** 

**Structure Photographs** 

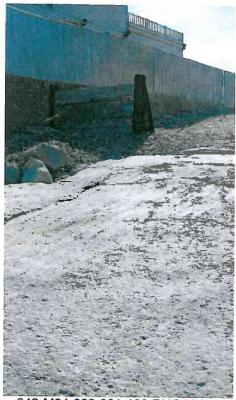


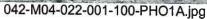
TOWN: MARSHFIELD SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
042-L09-024-005-100	042-L06-024-005-100-PHO1A.jpg		Bourne Consuliting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-L09-024-005-100	042-L09-024-005-100-PHO1B.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-L10-023-005-100	042-L10-023-005-100-PHO1A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-L10-023-005-100	042-L10-023-005-100-PHO1B.Jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Localion	Structure Condtion Photo at Time of Survey
042-L10-023-005-100	042-L10-023-005-100-PHO1C.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condtion Photo at Time of Survey
042-L10-023-005-100	042-L10-023-005-100-PHO1D.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condlion Photo at Time of Survey
042-L10-023-005-200	042-L10-023-005-200-PHO2A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condlion Photo at Time of Survey
042-M04-021-003-100	042-M04-021-003-100-PHO1A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M04-021-003-100	042-M04-021-003-100-PHO1B.jpg		Bourne Consulting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condlion Photo at Time of Survey
042-M04-022-001-100	042-M04-022-001-100-PHO1A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006.	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M05-006-007-100	042-M05-005-007-100-PHO1A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M05-007-006-100	042-M05-007-006-100-PHO1A.jpg		Bourne Consuliting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M05-007-008-100	042-M05-007-006-100-PHO1B.Jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006.	DIGITAL IMAGE	-	Structure Location	Structure Condiion Photo at Time of Survey
042-M05-008-008-100	042-M05-009-009-100-PHO1A.Jpg		Boume Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M05-008-014-100	042-M05-009-014-100-PHO1A.jpg		Bourne Consulting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M08-009-03B-100	042-M06-009-03B-100-PHO1A.jpg		Boume Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M08-009-03B-200	042-M08-009-03B-200-PHO2A.Jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M08-009-03B-300	042-M08-009-03B-300-PHO3A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M08-D09-03B-400	042-M06-009-03B-400-PHO4A.jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M06-010-001-100	042-M06-010-001-100-PHO1A.Jpg		Bourne Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
042-M06-010-001-100	042-M06-010-001-100-PHO1B.jpg		Bourne Consulking Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
042-M08-017-012-100	042-M0B-017-012-100-PHO1A.Jpg		Boume Consullting Engineering	MARSHFIELD	August 2006	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

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

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Structure Condition Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condlion Photo al Time of Survey	Structure Condition Photo at Time of Survey	Structure Condtion Photo at Time of Survey	Structure Condlion Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condtion Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condlion Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condtion Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condtion Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condition Photo at Time of Survey	Structure Condtion Photo at Time of Survey	
Structure Location	Structure Location	Structure Location	Structure Localion	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	Structure Location	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	DIGITAL IMAGE	TO SELECT
August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	August 2006	
MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD /	MARSHFIELD /	MARSHFIELD /	MARSHFIELD	MARSHFIELD A	MARSHFIELD A	MARSHFIELD	MARSHFIELD	MARSHFIELD	1
Bourne Consuliting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Bourne Consulting Engineering	Bourne Consulking Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Bourne Consuliting Engineering	Bourne Consulting Engineering	Bourne Consullting Engineering	Bourne Consuliting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Boume Consulting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Bourne Consullting Engineering	Воите
-	-																		
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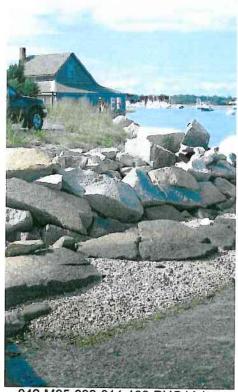
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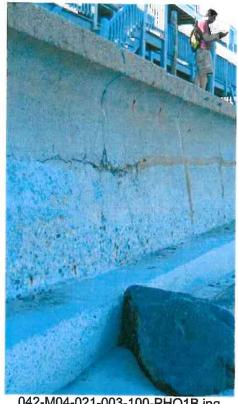
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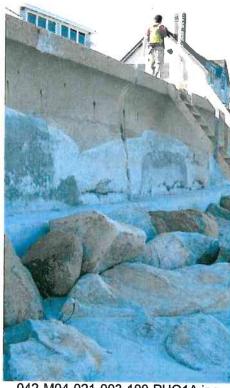
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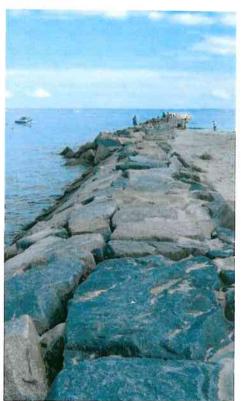
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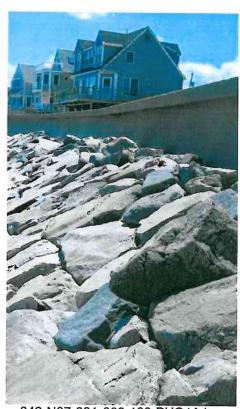
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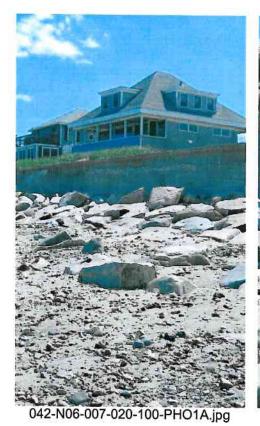
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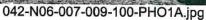
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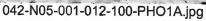




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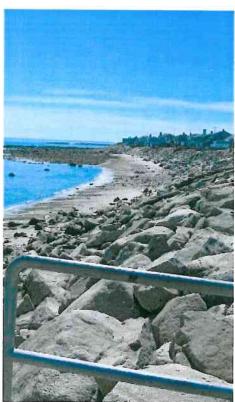






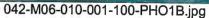


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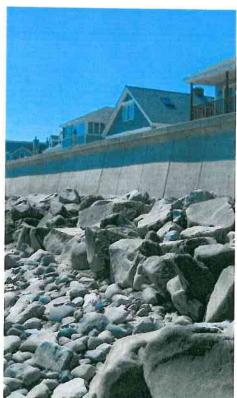




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042-M09-001-007-100-PHO1B.jpg

## **Section V**

## Town of Marshfield

## **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: MARSHFIELD SOURCE: TOWN OF MARSFIELD LOCATION: MARSHFIELD MA DATE OF RESEARCH: AUGUST 2006

		, someone							
BCE Structure No	Document No	Drawing Number		Municipality	Date	TMIO	Sheets	Location	Description
042-L09-024-005-100	042-L09-024-005-100-TWN1A		MARSHFIELD	MARSHFIELD	MAY 1999	SEAWALL RECONSTUCTION, 100-138 FOSTER AVE	ю	BETWEEN 1ST AND 3RD AVE	
042-L08-024-005-100	042-L09-024-005-100-TWN1B		MARSHFIELD	MARSHFIELD	MAY 2000	ASBUILT SEAWALL 100-138 FOSTER AVE	60	BETWEEN 1ST AND 3RD AVE	
042-L10-023-005-100	042-L10-023-005-100-TWN1A	316	MA DPW	MARSHFIELD	SEPT 1930	PROPOSED PILE FOUNDATION FOR MARSHFIELD SEAWALL	-	FOSTER AVENUE	
042-L10-023-005-100	042-L10-023-005-100-TWN1B	#2005-05	MARSHFIELD DPW	MARSHFIELD	AUGUST 2004	SEAWALL & STAIRWAY RECONSTRUCTION PROJECT CONTRACT 2005-05	9	BROOK ST. TO #100 FOSTER AVE., FARRAGUT, HARTFORD AND 11TH ROADS, 7TH AND 5TH ROADS,	PROPOSED WORK PLAN / DETAILS AND SECTIONS / STAIRWAY IMPROVEMENT PLAN
042-L10-023-005-100	042-L10-023-005-100-TWN1C		MARSHFIELD DPW	MARSHFIELD	MAY 1998	SEAWALL RECONSTRUCTION PROJECT, 100-138 FOSTER AVENUE, MARSHFIELD, MA	m	100-138 FOSTER AVENUE	SITE PLAN / PROPOSED WORK PLAN / TYPICAL SECTIONS / EXISTING/PROPOSED
042-L10-023-005-100	042-L10-023-005-100-TWN1D	373	MDPW	MARSHFIELD	MAR 1932	PROPOSED RUBBLE CONCRETE STEPS, BRANT	-	STEPS FROM CONSTELLATION AVE TO 3RD AVE	SECTIONS
042-L10-023-005-100	042-L10-023-005-100-TWN1E	209	MDPW	MARSHFIELD	SEP 1931	EXTENTION OF PROPOSED SEAWALL	-	FROM REXAME AVE TO FARRAGUT AVE	
042-L10-023-005-200	042-L10-023-005-200-TWN2A	316	MA DPW	MARSHFIELD	SEPT 1931	PROPOSED PILE FOUNDATION FOR MARSHFIELD SEAWALL	-		
042-L10-023-005-200	042-L10-023-005-200-TWN2B	#2005-05	MARSHFIELD DPW	MARSHFIELD	AUGUST 2004	SEAWALL & STAIRWAY RECONSTRUCTION PROJECT CONTRACT 2005-06	9	BROOK ST. TO #100 FOSTER AVE., FARRAGUT, HARTFORD AND 11TH ROADS, 7TH AND 5TH ROADS,	PROPOSED WORK PLAN / DETAILS AND SECTIONS / STAIRWAY IMPROVEMENT PLAN
042-L10-023-005-200	042-L10-023-005-200-TWN2C		MARSHFIELD DPW	MARSHFIELD	MAY 1999	SEAWALL RECONSTRUCTION PROJECT, 100-138 FOSTER AVENUE, MARSHFIELD, MA	n	100-138 FOSTER AVENUE	SITE PLAN / PROPOSED WORK PLAN / TYPICAL SECTIONS / EXISTING/PROPOSED SPCTIONS
042-M04-021-003-100	042-M04-021-003-100-TWN1A	2502	MDPW	MARSHFIELD	OCT 1965	PROPOSED SHORE PROTECTION, STONE REVETMENT & SEAWALL REPAIR, GREEN HARBOR	-	BOG AVE, SOUTH OF JETTY TO BUXBERRY TOWN LINE	
042-M04-021-003-100	042-M4-021-003-100-TWN1B	962	MA DPW	MARSHFIELD	JAN. 1947	PROPOSED SEAWALL AND WALL REPAIRS, GREEN HARBOR	-	BAY AVENUE FROM BAY STREET TO JACKSON STREET	
042-M04-022-001-100	042-M04-022-001-100-TWN1A	2502	MDPW	MARSHFIELD	OCT 1965	PROPOSED SHORE PROTECTION, STONE REVETMENT & SEAWALL REPAIR, GREEN HARBOR	-	BOG AVE, SOUTH OF JETTY TO DUXBERRY TOWN LINE	
042-M05-008-007-100	042-M05-006-007-100-TWN1A		MARSHFIELD DPW	MARSHFIELD	NOV 1978	PROPOSED SEAWALL RECONSTUCTION AND SHORE PROTECTION	41	GREEN HARBOR-SOUTH OF THE JETTY, BRANT ROCK-NORTH OF JETEN HARBOR POINT TO DIKE RD, OCEAN BLUFF-NORTH OF STLYAND OCEAN STREET	
042-M05-006-007-100	042-M05-006-007-100-TWN1B	1882	MDPW	MARSHFIELD	NOV 1957	PROPOSED SHORE PROTECTION, CONCRETE SEAWALL, GREEN HARBOR	-	OF BEACH STERET	NEW CONCRETE SEAWALL
042-M05-006-007-100	042-M05-006-007-100-TWN1c	2502	MDPW	MARSHFIELD	OCT 1965	PROPOSED SHORE PROTECTION, STONE REVETMENT & SEAWALL REPAIR, GREEN HARBOR	, <del>-</del>	BOG AVE, SOUTH OF JETTY TO DUXBERRY TOWN LINE	
042-M05-009-009-100	042-M5-009-009-100-TWN1A	2811	MA DPW	MARSHFIELD	AUG. 1974	PROPOSED SHORE PROTECTION, WOOD BULKHEAD AND STONE REVETMENT. BAY AVE.	-	OCEAN ENTRANCE TO GREEN HARBOR	***REFERENCE***NO ACTUAL PLANS
042-M08-019-003-100	042-M08-019-003-100-TWN1A		MDPW	MARSHFIELD	SEP 1941	PROPOSED STEP REPAIRS, BRANT ROCK	-	OCEAN AVE, OPPOSITE PURITAIN ST	
042-M08-042-002-100	042-M08-042-002-100-TWN1A	2842	MDPW	MARSHFIELD	MAR 1976	PROPOSED SHORE PROTECTION, OCEAN STREET, OCEAN BLUFF	1	NORTH OF DIKE ROAD	WALL, REMOVE AND REPACE GROUT
042-M08-051-004-100	042-M08-051-004-100-TWN1A		MARSHFIELD	MARSHFIELD	AUG 1995	SEAWALL REPAIR PROJECT, BRANT ROCK	2	BRANT ROCK- 1800' SOUTH OF DIKE RD, 300' NORTH OF DIKE RD	
042-M08-051-004-100	042-M08-051-004-100-TWN1B	2842	MDPW	MARSHFIELD	MAR 1976	PROPOSED SHORE PROTECTION, OCEAN STREET, OCEAN BLUFF	1	NORTH OF DIKE ROAD N	REPAIR STAIRS, INSTALL DRAINS TRRU WALL, REMOVE AND REPACE GROUT
042-M08-051-014-100	042-M0B-051-014-100-TWN1C	2842	MDPW	MARSHFIELD	MAR 1976	PROPOSED SHORE PROTECTION, OCEAN STREET, OCEAN BLUFF	1	NORTH OF DIKE ROAD	REPAIR STAIRS, INSTALL DRAINS TRRU WALL, REMOVE AND REPACE GROUT
042-M09-001-007-100	042-M09-001-007-100-TWN1A	#2002-03	MARSHFIELD DPW	MARSHFIELD	MAY 2001	SEAWALL RECONSTRUCTION PROJECT, #26 TO #76 FOSTER AVENUE	3	AVE	SITE PLAN / PROFILE /
042-M09-001-007-100	042-M09-001-007-100-TWN1B	2711	MDPW	MARSHFIELD	SEP 1970	PROPOSED SEAWALL RECONSTUCTIONVICINITY OF BROOK STREET	2	EXTENDS OVER 2 LOTS BOTH NORTH AND SOUTH OF BROOK STREET	SEAWALL REPAIR - PEMOVE AND REPLACE
042-M09-006-009-100	042-M09-006-009-100-TWN1A	2585	MA DPW	MARSHFIELD	DEC 1987	PROPOSED SHORE PROTECTION, STONE MOUND AND REVETMENT, OCEAN BLUFFS	4		***REFERENCE***NO ACTUAL PLANS AVAILABLE
042-M09-006-009-100	042-M09-006-009-100-TWN1B		MARSHFIELD DPW	MARSHFIELD	JUL 2001	SEAWALL REPAIR PROJECT 26-78 FOSTER AVE	3		
042-M09-006-009-100	042-M09-006-009-100-TWN1C		MARSHFIELD DPW	MARSHFIELD	NOV 1978	PROPOSED SEAWALL RECONSTUCTION AND SHORE PROTECTION	14	GREEN HARBOR-SOUTH OF THE JETTY, BRANT ROCK-NORTH OF GREEN HARBOR POINT TO DIKE RD, OCEAN BLUFF-NORTH OF TATTYAND OCEAN STREET	
042-M09-006-009-100	042-M09-008-009-100-TWN1D	1861	MDPW	MARSHFIELD	APR 1854	PROPOSED SHORE PROTECTION, STONE REVETMENT, OCEAN BLUFF	2		NEW STONE REVETMENT
042-M09-006-009-100	042-M09-006-009-100-TWN1E		MARSHFIELD	MARSHFIELD	NOV 1882	SEAWALL REPAIRS, 72-100 FOSTER AVE	2	NORTH AND SOTH OF BROOK STREET	
042-M09-006-009-100	042-M09-006-009-100-TWN1F		MARSHFIELD	MARSHFIELD	NOV 1978	PROPOSED STONE REVETMENT, BRANT ROCK AND OCEAN BLUFF	8	BRANT ROCK- SOUTH 1800 FEET, OCEAN BLUFF- FROM SHAWMET AVE SOUTH TO JETTY	
042-N08-007-008-100	042-N08-007-008-100-TWN1A	302	MA DPW	MARSHFIELD		PROPOSED SEAWALL AND RIPHAP, SOUTH OF BRANT ROCK	1	OCEAN STREET BETWEEN SOUTHERN TERMINUS AND JERSEY	
042-N08-007-009-100	042-N06-007-009-100-TWN1B		MARSHFIELD	MARSHFIELD	,	PROFOSED SEAWALL RECONSTICTION AND SHORE PROFOSED STONE REVETMENT BRANT BOCK AND		GREEN HARBOR: SUUTH OF THE JETT, BRANT RUCK-NORTH OF THE JETT OF THE SHORTH OF THE BRANT BOOK, SUITH 4800 EEET OF AN BILLIEF SHOW SUMMERT	
042-N08-00/-008-100	042-N06-007-009-100-TWN1C		DPW	MARSHFIELD	_ 1	OCCAN BLUFF	8	AVE SOUTH TO JETTY	
042-N06-007-024-100	042-N06-007-024-100-TWN1A	302	MA DPW	MARSHFIELD	- 1	PROPOSED SEAWALL AND RIPRAP, SOUTH OF BRANT ROCK	-	OCEAN STREET BETWEEN SOUTHERN TERMINUS AND JERSEY STREET	
042-N06-007-024-100	042-N06-007-024-100-TWN1B		DPW	MARSHFIELD	NOV 1991	SEAWALL REPAIR, 24 OCEAN STREET	2	100' NORTH OF WAVE STREET	
042-N08-007-024-100	042-N06-007-240-100-TWN1C		MARSHFIELD DPW	MARSHFIELD	NOV 1978	PROPOSED SEAWALL RECONSTUCTION AND SHORE PROTECTION	4	GREEN HARBOR- SOUTH OF THE JETTY, BRANT ROCK-NORTH OF SEEEN HARBOR POINT TO DIKE RD, OCEAN BLUFF-NORTH OF IETTYAND OCEAN STREET	
		_						JELLIYAND OCEAN SINEE	

TOWN: MARSHFIELD SOURCE: TOWN OF MARSFIELD LOCATION: MARSHFIELD MA DATE OF RESEARCH: AUGUST 2006

			TUAL PLANS			
			***REFERENCE***NO ACTUAL PLANS AVAILABLE			
BRANT ROCK- 1800' SOUTH OF DIKE RD, 300' NORTH OF DIKE RD	GREEN HARBOR-SOUTH OF THE JETTY, BRANT ROCK-NORTH OF GREEN HARBOR POINT TO DIKE RD, OCEAN BLUFF-NORTH OF ITTYAND OCEAN STREET	OCEAN AVE, 100' SOUTH OFBRANT ROCK	OCEAN STREET BETWEEN SOUTH STREET AND REED STREET	BRANT ROCK- 1600' SOUTH OF DIKE RD, 300' NORTH OF DIKE RD	GREEN HARBOR-SOUTH OF THE JETTY, BRANT ROCK-NORTH OF GREEN HARBOR POINT TO DIKE RD, OCEAN BLUFF-NORTH OF ITTYAND OCEAN STREET.	BOG AVE, SOUTH OF JETTY TO DUXBERRY TOWN LINE
2	4	+		2	4	-
SEAWALL REPAIR PROJECT, BRANT ROCK	PROPOSED SEAWALL RECONSTUCTION AND SHORE PROTECTION	PROPOSED SEAWALL REPAIRS, BRANT ROCK	PROPOSED SHORE PROTECTION, CONCRETE SEAWALL, STONE REVETMENT, BRANT ROCK	SEAWALL REPAIR PROJECT, BRANT ROCK	PROPOSED SEAWALL RECONSTUCTION AND SHORE PROTECTION	PROPOSED SHORE PROTECTION, STONE REVETMENT & SEAWALL REPAIR, GREEN HARBOR
AUG 1995	NOV 1978	AUG 1947	MAR 1967	AUG 1895	NOV 1978	OCT 1965
MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD	MARSHFIELD
MARSHFIELD	MARSHFIELD DPW	MDPW	MA DPW	MARSHFIELD	MARSHFIELD DPW	MDPW
		986	2560			2502
042-N07-001-003-100 042-N07-001-003-100-TWN1A	042-N07-001-003-100-TWN1B	042-N07-001-003-100-TWNC	042-N07-007-004-100 042-N07-007-004-100-TWN1A	042-N07-007-004-100 042-N07-007-004-100-TWN1B	042-N07-007-004-100 042-N07-007-004-100-TWN1C	042-N07-007-004-100
042-N07-001-003-100	042-N07-001-003-100	042-N07-001-003-100	042-N07-007-004-100	042-N07-007-004-100	042-N07-007-004-100	042-N07-007-004-100

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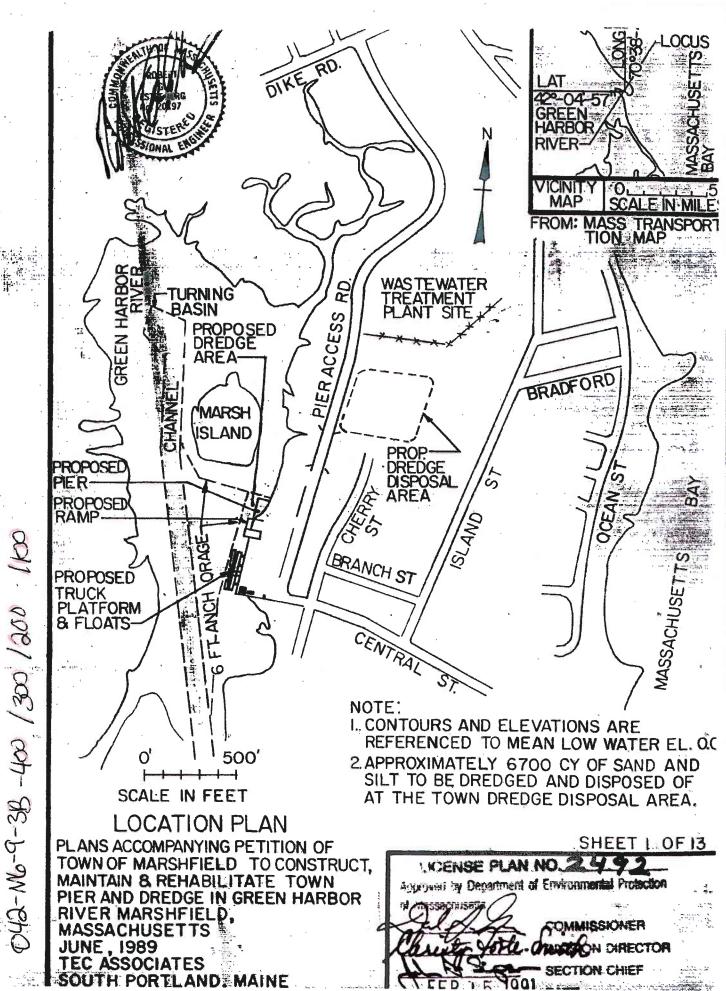
042-L10-023-005-100 042-L10-023-005-100 042-L10-023-005-200	042-L10-023-005-100-DCR1A	Number	MA DPW	MARSHFIELD	AUGUST 1931		Ī		
042-L10-023-005-100 042-L10-023-005-100 042-L10-023-005-200	042-1 10-023-005-100-DCB1B	087				PROPOSED SEAWALL, MARSHFIELD	2	FOSTER AVENUE	ORIGINAL CONSTRUCTION, INCLUDES GROINS
042-L10-023-005-100 042-L10-023-005-200		316	MA DPW	MARSHFIELD	SEPT 1930	PROPOSED PILE FOUNDATION FOR MARSHFIELD SFAMALI	6	FOSTER AVENUE	
042-L10-023-005-200	042-L10-023-005-100-DCR1C	808	MA DPW	MARSHFIELD	SEPT. 1939	PROPOSED CONCRETE FENCE, BRANT ROCK	-	OCEAN AVE BETWEEN 8TH AND 10TH STREETS	ORIG. CONST.
200	042-L10-023-005-200-DCR2A	290	MA DPW	MARSHFIELD	AUGUST 1931	PROPOSED SEAWALL, MARSHFIELD	2	FOSTER AVENUE	ORIGINAL CONSTRUCTION, INCLUDES GROINS
042-L10-023-005-200	042-L10-023-005-200-DCR1B	316	MA DPW	MARSHFIELD	SEPT 1931	PROPOSED PILE FOUNDATION FOR MARSHFIELD SEAWALL	3 F	FOSTER AVENUE	
042-L10-023-005-200	042-L10-023-005-200-DCR2C	808	MA DPW	MARSHFIELD	SEPT 1939	PROPOSED CONCRETE FENCE, BRANT ROCK	2 (	OCEAN AVE BETWEEN 8TH AND 10TH STREETS	ORIG. CONST.
042-M04-021-003-100	042-M04-021-003-100-DCR1A	962	MA DPW	MARSHFIELD	JAN. 1947	PROPOSED SEAWALL AND WALL REPAIRS, GREEN HARBOR	-	BAY AVENUE FROM BAY STREET TO JACKSON STREET	
042-M04-021-003-100	042-M04-021-003-100-DCR1B	2502	MA DPW	MARSHFIELD	OCT 1965	GREEN HARBOR, PROPOSED SHORE PROTECTION, STONE REVETMENT SEAWALL REPARS.	-	FROM DUXBURY TOWN LINE NORTH 2000 FEET	
042-M04-022-001-100	042-M04-022-001-100-DCR1A	2502	WA DPW	MARSHFIELD	OCT 1965	GREEN HARBOR, PROPOSED SHORE PROTECTION, STONE REVETMENT SEAWALL REPAIRS	-	FROM DUXBURY TOWN LINE NORTH 2000 FEET	
042-M05-006-007-100	042-M05-006-007-100-DCR1A	1882	MA DPW	MARSHFIELD	NOV. 1957	PROPOSED SHORE PROTECTION, CONCRETE SEAWALL GREEN HARBOR	-	BAY ROAD, OPPOSITE JACKSON STREET	
042-M05-006-007-100	042-M05-006-007-100-DCR1B	2502	MA DPW	MARSHFIELD	OCT 1985	GREEN HARBOR, PROPOSED SHORE PROTECTION, STONE REVETMENT SEAWALL REPAIRS	-	FROM DUXBURY TOWN LINE NORTH 2000 FEET	
042-M05-007-006-100	042-M05-007-006-100-DCR1A	1008	MA DPW	MARSHFIELD	OCT. 1947	PROPOSED RECONSTRUCTION OF WEST JETTY, GREEN HARBOR	-	OCEAN ENTRANCE TO GREEN HARBOR	
042-M05-007-006-100	042-M05-007-006-100-DCR1B	1087	MA DPW	MARSHFIELD	APRIL 1949	PROPOSED RECONSTRUCTION OF WEST JETTY, GREEN HARBOR	-	OCEAN ENTRANCE TO GREEN HARBOR	
042-M05-009-009-100	042-M05-009-009-100-DCR1A	2811	MA DEQE	MARSHFIELD	AUG. 1974	PROPOSED SHORE PROTECTION, WOOD BULKHEAD AND STONE REVETMENT RAY AVE	2	OCEAN ENTRANCE TO GREEN HARBOR	
042-M06-009-003B-100	042-M06-009-003B-100-DCR1A	2034	MA DPW	MARSHFIELD	FEB 1959	PROPOSED HARBOR DEVELOPMENT TIMBER PIER AND SFAWALL GREEN HARBOR	2	TOWN PIER	
042-M06-009-003B-300	042-M06-009-003B-300-DCR1B	2034	MA DPW	MARSHFIELD	PEB 1959	PROPOSED HARBOR DEVELOPMENT TIMBER PIER AND SFAWALL GREEN HARBOR	2	TOWN PIER	
042-M08-010-001-100	042-M06-010-001-100-DCR1A	2034	MA DPW	MARSHFIELD	FEB 1959	PROPOSED HARBOR DEVELOPMENT TIMBER PIER AND SEAWALL, GREEN HARBOR	2	TOWN PIER	
042-M08-017-003-100	042-M08-017-003-100-DCR1A	1578	MA DPW	MARSHFIELD	JAN. 1856	PROPOSED SHORE PROTECTION, STONE APRON AND STEEL PILING REVETMENT, BRANT ROCK	-	OCEAN AVE BETWEEN SAMOSET AVE AND FRANKI IN STRFFT	
042-M08-017-012-100	042-M08-017-012-100-DCR1A	721	MA DPW	MARSHFIELD		PROPOSED SHORE PROTECTION, BRANT ROCK, MARSHEILD	-	ADJACENT OCEAN AVE BETWEEN SHAWMUT AND SAMOSET AVE	ORIG. CONST.
042-M08-019-003-100	042-M08-019-003-100-DCR1A	999	MA DPW	MARSHFIELD	MAY 1940	PROPOSED CONCRETE FENCES	-	OPPOSITE PURITAN STREET	ORIG. CONST.
042-M08-019-003-100	042-M08-019-003-100-DCR1B	723	MA DPW	MARSHFIELD	SEPT 1941	PROPOSED RAMP, BRANT ROCK, MARSHFIELD	1	OPPOSITE PURITAN STREET	****BOAT RAMP*** ORIG. CONST.
042-M08-019-003-100	042-M08-019-003-100-DCR1C	784	MA DPW	MARSHFIELD	OCT. 1943	REPAIRS TO SEAWALL, BRANT ROCK,	1		
042-M08-019-003-100	042-M08-019-003-100-DCR1D	945	MA DPW	MARSHFIELD	OCT. 1946	PROPOSED SHORE PROTECTION, BRANT ROCK, MARSHFIELD	1	OCEAN AVENUE SOUTH OF SAMOSET AVE	2 JETTIES AND REVETMENT NEW CONST. JETTIES, RIPRAP REPAIR
042-M08-034-003-100	042-M08-034-003-100-DCR1E	945	MA DPW	MARSHFIELD	OCT. 1948	PROPOSED SHORE PROTECTION, BRANT ROCK, MARSHFIELD	1	OCEAN AVENUE ACROSS WEBSTER AVE	2 JETTIES AND REVETMENT NEW CONST. JETTIES, RIPRAP REPAIR
042-M08-042-002-100	042-M08-042-002-100-DCR1A	819	MA DPW	MARSHFIELD	FEB. 1945	PROPOSED REPAIRS TO SEAWALL, BRANT ROCK	1	OCEAN AVENUE AT HANCOCK STREET	
042-M08-042-002-100	042-M08-042-002-100-DCR1B	1236	MA DPW	MARSHFIELD	MAY 1952	PROPOSED SHORE PROTECTION, MARSHFIELD MA, BEACH IMPROVEMENTS, BRANT ROCK	1 0	OCEAN STREET BY COAST GUARD STATION	
042-M08-042-002-100	042-M08-042-002-100-DCR1C	1578	MA DPW	MARSHFIELD	JAN. 1958	PROPOSED SHORE PROTECTION, STONE APRON AND STEEL PILING REVETMENT, BRANT ROCK	-	OCEAN AVE BETWEEN SAMOSET AVE AND FRANKLIN STREET	
042-M08-042-002-100	042-M08-042-002-100-DCR1D	2842	MA DEQE	MARSHFIELD	MARCH 1980	PROPOSED SHORE PROTECTION, SEAWALL REPAIRS, OCEAN STREET, OCEAN BLUFFS, MARSHFIELD	6	328 OCEAN STREET 580 FEET NORTHERLY	
042-M08-051-004-100	042-M08-051-004-100-DCR1A	335	MA DPW	MARSHFIELD	MAY 1932	PROPOSED CONCRETE SEAWALL, BRANT ROCK	-	OCEAN AVE BETWEEN SOUTH STREET AND FRANKLIN STREET	
042-M08-051-009-100	042-M08-051-009-100-DCR1A	945	MA DPW	MARSHFIELD	OCT. 1946	PROPOSED SHORE PROTECTION, BRANT ROCK, MARSHFIELD	-	OCEAN AVENUE BETWEEN THISTLE AND NORTH STREET	2 JETTIES AND REVETMENT NEW CONST. JETTIES, RIPRAP REPAIR
042-M08-051-014-100	042-M08-051-014-100-DCR1A	1236	MA DPW	MARSHFIELD	MAY 1952	PROPOSED SHORE PROTECTION, MARSHFIELD MA, BEACH IMPROVEMENTS, BRANT ROCK	-	OCEAN STREET BY COAST GUARD STATION	
042-M08-001-007-100	042-M09-001-007-100-DCR1A	2711	MA DEQE	MARSHFIELD	SEPT. 1870	PROPOSED SHORE PROTECTION, SEAWALL RECONSTRUCTION, VICINITY OF BROOK STREET OCEAN BLUFF MARSHFIELD	2 E	BROOK STREET, OCEAN BLUFF	
042-M09-008-009-100	042-M09-008-009-100-DCR1A	257	MA DPW	MARSHFIELD	NOV 1930	PROPOSED RIPRAP AT BRANT ROCK	-	NORTH OF BRANT ROCK	
042-M09-006-009-100	042-M09-006-009-100-DCR1B	291	MA DPW	MARSHFIELD	AUGUST 1931	PROPOSED RIP RAP EAST OF OCEAN AVENUE BRANT ROCK	1	EAST OF OCEAN AVENUE BRANT ROCK	
042-M09-006-009-100	042-M09-006-009-100-DCR1C	1388	MA DPW	MARSHFIELD	APRIL 1954	PROPOSED SHORE PROTECTION, RIP RAP REVETMENT, OCEAN BLUFFS, MARSHFIELD	1	OCEAN STREET ACROSS SATUCKET STREET	REPAIRS
042-M09-006-009-100	042-M09-006-009-100-DCR1D	1881	MA DPW	MARSHFIELD	APRIL 1958	PROPOSED SHORE PROTECTION, STONE REVETMENT, OCEAN BLUFF, MARSHFIELD	2	BETWEEN 488 OCEAN AVENUE AND 26 FOSTER AVENUE	
042-M09-006-009-100	042-M09-006-009-100-DCR2E	2595	MA DPW	MARSHFIELD	DEC. 1967	PROPOSED SHORE PROTECTION, STONE MOUND AND REVETMENT. OCEAN BLUFFS	4	FOSTER AVE AND OCEAN STREET	
042-M09-008-009-200	042-M09-006-009-100-DCR2A	257	MA DPW	MARSHFIELD	NOV 1930	PROPOSED RIPRAP AT BRANT ROCK	1	NORTH OF BRANT ROCK	
042-M09-006-009-200	042-M09-006-009-100-DCR1B	291	MA DPW	MARSHFIELD	AUGUST 1931	PROPOSED RIP RAP EAST OF OCEAN AVENUE BRANT ROCK	1	EAST OF OCEAN AVENUE BRANT ROCK	
042-M09-006-009-200	042-M09-006-009-100-DCR2C	1388	MA DPW	MARSHFIELD	APRIL 1954	PROPOSED SHORE PROTECTION, RIP RAP REVETMENT, OCEAN BLUFFS, MARSHFIELD	1	OCEAN STREET ACROSS SATUCKET STREET	REPAIRS
042-M09-006-009-200	042-M09-006-009-100-DCR2D	1881	MA DPW	MARSHFIELD	APRIL 1958	PROPOSED SHORE PROTECTION, STONE REVETMENT, OCEAN BLUFF, MARSHFIELD	2 4	BETWEEN 466 OCEAN AVENUE AND 26 FOSTER AVENUE	

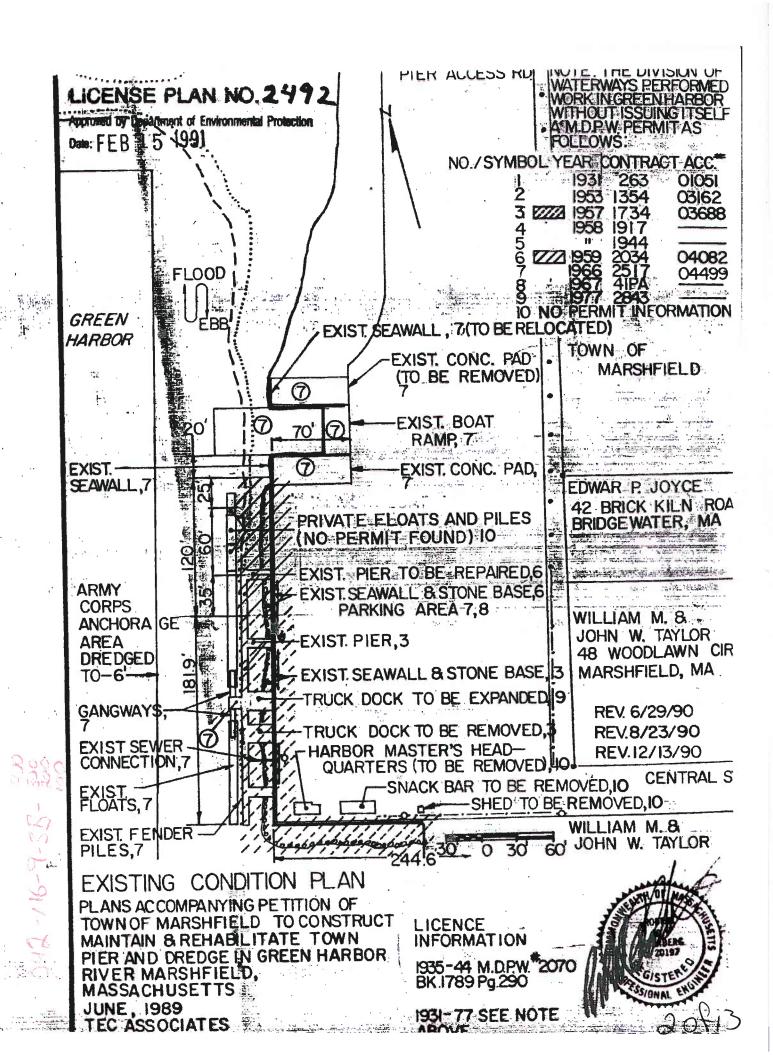
TOWN: MARSHFIELD SOURCE: MA-DCR - OFFICE OF WATERWAYS LOCATION: MA-DCR - OFFICE OF WATERWAYS, HINGHAM, MA DATE OF RESEARCH: AUGUST 2006

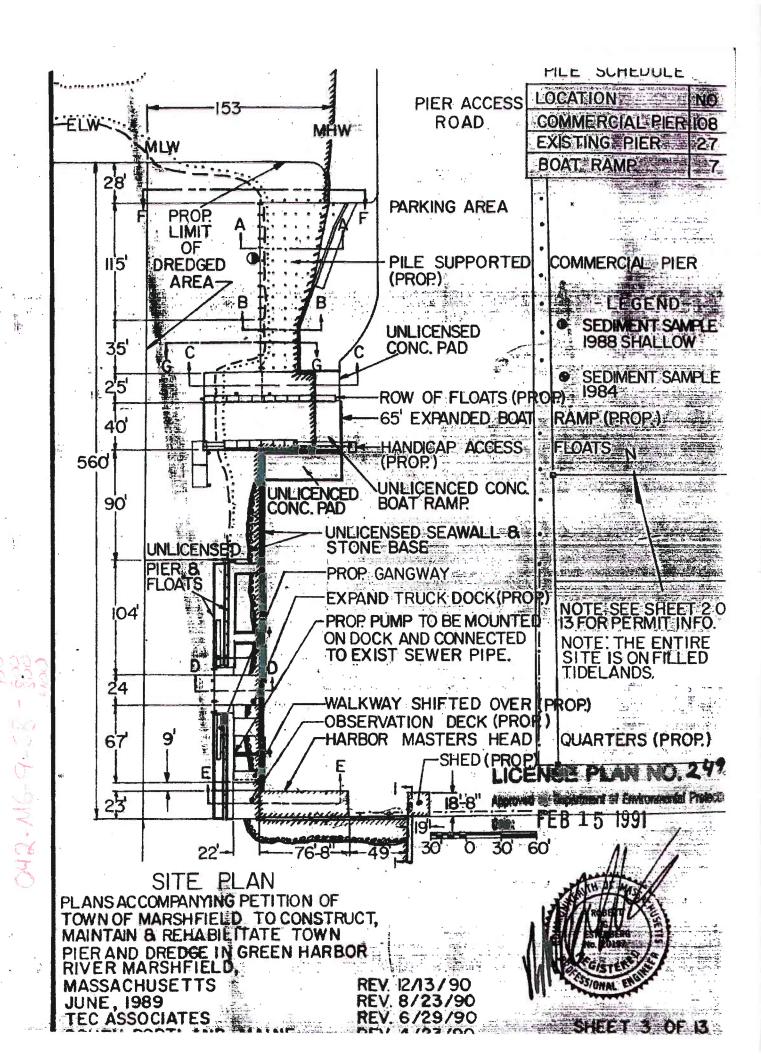
TOWN: MARSHFIELD SOURCE: MA-DEP CHAPTER 91 LICENSE LOCATION: MA-DEP MAIN OFFICE, BOSTON, MA DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
042-M04-021-003-100	042-M04-021-003-100-LIC1A	2441	DEP CH.91	MARSHFIELD	NOV 16 1990	PLAN ACCOMPANNING PETTINON OF TOWN OF MARSHFIELD TO RE-CONSTRUCT A PORTION OF SEA WALL AND GLOSE EXISTING OPENING ALONG THE ATLANTIC OCEAN, OCEAN STREET AND WAVE STREET.	4	INTERSECTION OF OCEAN STREET AND WAVE STREET	11
042-M04-022-001-100	042-M04-022-001-100-LIC1A	2441	DEP CH.91	MARSHFIELD	NOV 16 1990	PLAN ACCOMPANYING PETITION OF TOWN OF MARSHFIELD TO RE-CONSTRUCT A PORTION OF SEA WALL AND GLOSE EXISTING OPENING ALONG THE ATLANTIC OCEAN, OCEAN STREET AND WAVE STREET.	4	INTERSECTION OF OCEAN STREET AND WAVE STREET	
042-M06-009-003B-100	042-M06-009-003B-100-LIC1A	2492	DEP CH.91	MARSHFIELD	FEB 15 1991	PLANS ACCOMPANYING PETITION OF THE TOWN OF MARSHFIELD TO CONSTRUCT, MAINTAIN & REHABLITATE TOWN PIER AND DREDGE IN GREEN HARBOOR RIVER MARSHFIELD	13	TOWN PIER, GREEN HARBOR, ADJACENT CHERRY STREET	
042-M06-009-003B-200	042-M06-009-003B-200-LIC2A	2492	DEP CH.91	MARSHFIELD	FEB 15 1991	PLANS ACCOMPANYING PETITION OF THE TOWN OF MARSHFIELD TO CONSTRUCT, MAINTAIN & REHABLITATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD	13	TOWN PIER, GREEN HARBOR, ADJACENT CHERRY STREET	
042-M06-009-003B-300	042-M06-009-003B-300-LIC3A	2492	DEP CH.91	MARSHFIELD	FEB 15 1991	PLANS ACCOMPANYING PETITION OF THE TOWN OF MARSHFIELD TO CONSTRUCT, MAINTAIN & REHABLILTATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD	55	TOWN PIER, GREEN HARBOR, ADJACENT CHERRY STREET	
042-M06-009-003B-300	042-M06-008-003B-300-LIC3B	4858	DEP CH.91	MARSHFIELD	AUG 19 1964	PLAN ACCOMPANNING PETITION OF TOWN OF MARRSHFIELD TO DISPOSE OF DREDGING MATERIAL FROM SATE OF MASS DEPT OF PUBLIC WORKS CONTRACT #2408 ON PROPERTY OWNED BY TOWN OF MARSHFIELD IN GREEN HARBOR	-	TOWN PIER, GREEN HARBOR, ADJACENT CHERRY STREET	
042-M06-009-003B-400	042-M06-009-003B-400-LIC4A	2492	DEP CH.91	MARSHFIELD	FEB 15 1991	PLANS ACCOMPANYING PETITION OF THE TOWN OF MARSHFIELD TO CONSTRUCT, MAINTAIN & REHABLILTATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD	13	TOWN PIER, GREEN HARBOR, ADJACENT CHERRY STREET	
042-M08-051-004-100	042-M08-051-004-100-LIC1A	377	DEP CH.91	MARSHFIELD	SEPT 20 1977	PLANS ACCOMPANYING PETITION OF THE TOWN OF MARSHELD TO CONSTRUCT AND MAINTAIN A 32" PRESSURE TYPE POLYETHYLENE OCEAN OUTFALL WITH THRUST BLOCKS AND RIP-RAP	6		SHEETS 2 AND 3 MISSING

643-M6-9-100 /200 /200 /200 /200 /200







SHEET 4 OF 13

EXISTING PRECAST CONCRETE SECTION, RELOCATED GEOWEB

## LICENSE PLAN NO. 2492

REV. 6/29/90

Accrowed by Department of Environmental Protection

Date: FEB 15 1991

#### CROSS SECTION

PLANS ACCOMPANYING PETITION OF TOWN OF MARSHFIELD TO CONSTRUCT MAINTAIN & REHABILITATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD, MASSACHUSETTS

TEC ASSOCIATES SOUTH PORTLAND MAINE

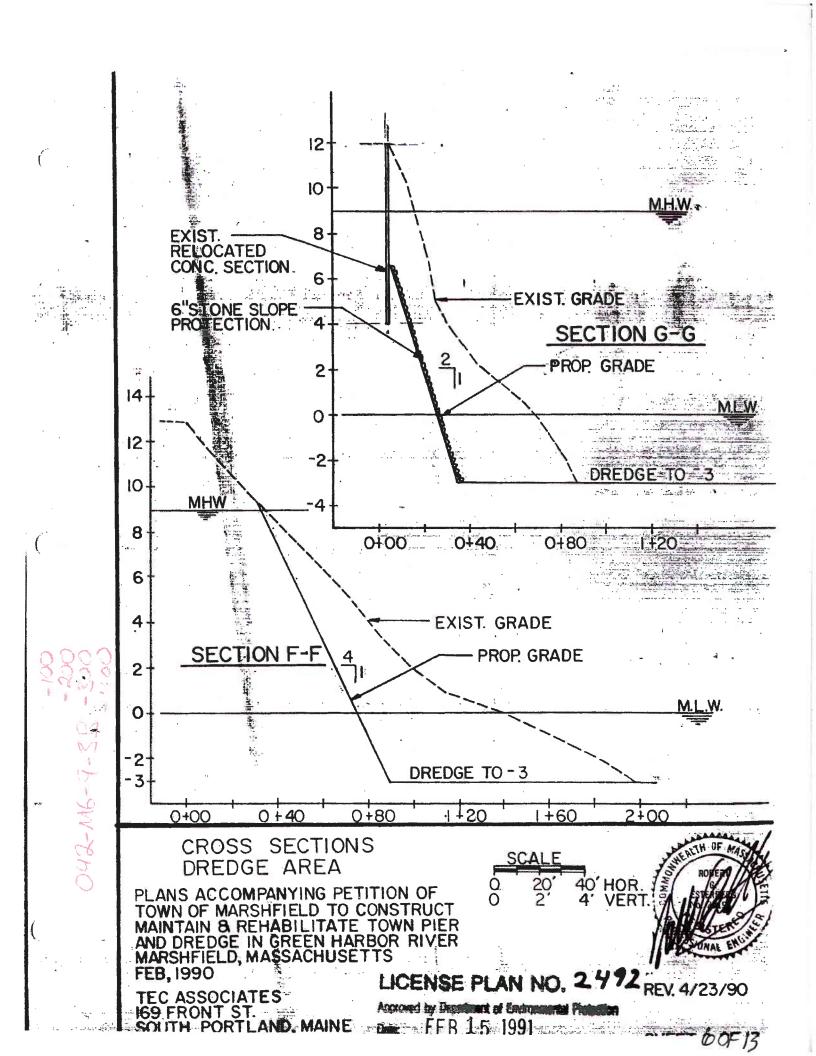
JANUARY, 1990

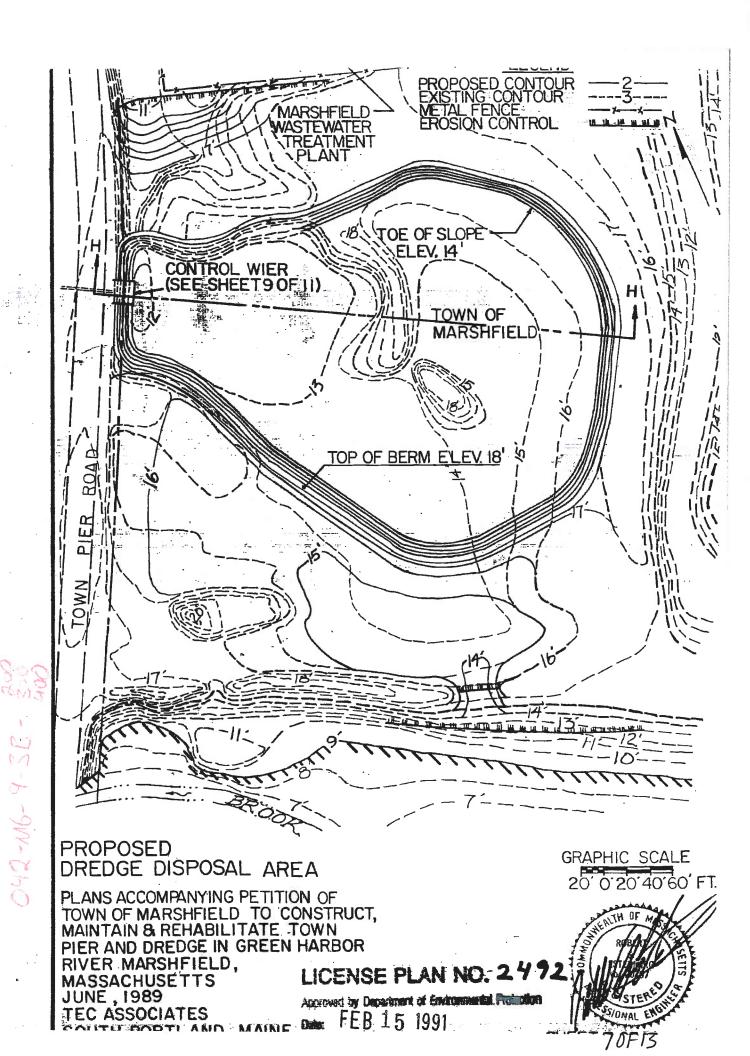
MHW \_-EL. 12.5'

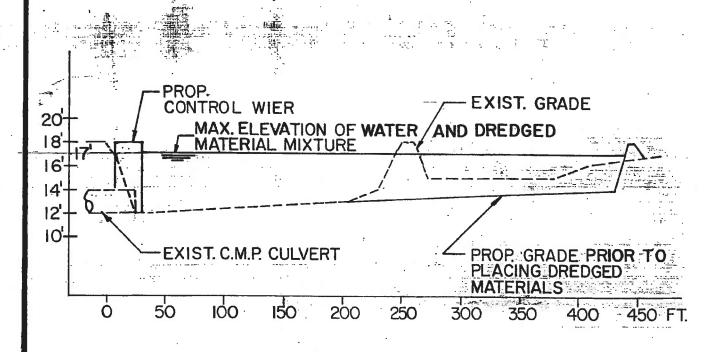
PROPOSED GRADE



SHEET 5 OF 13







SECTION H-H

### LICENSE PLAN NO. 2492

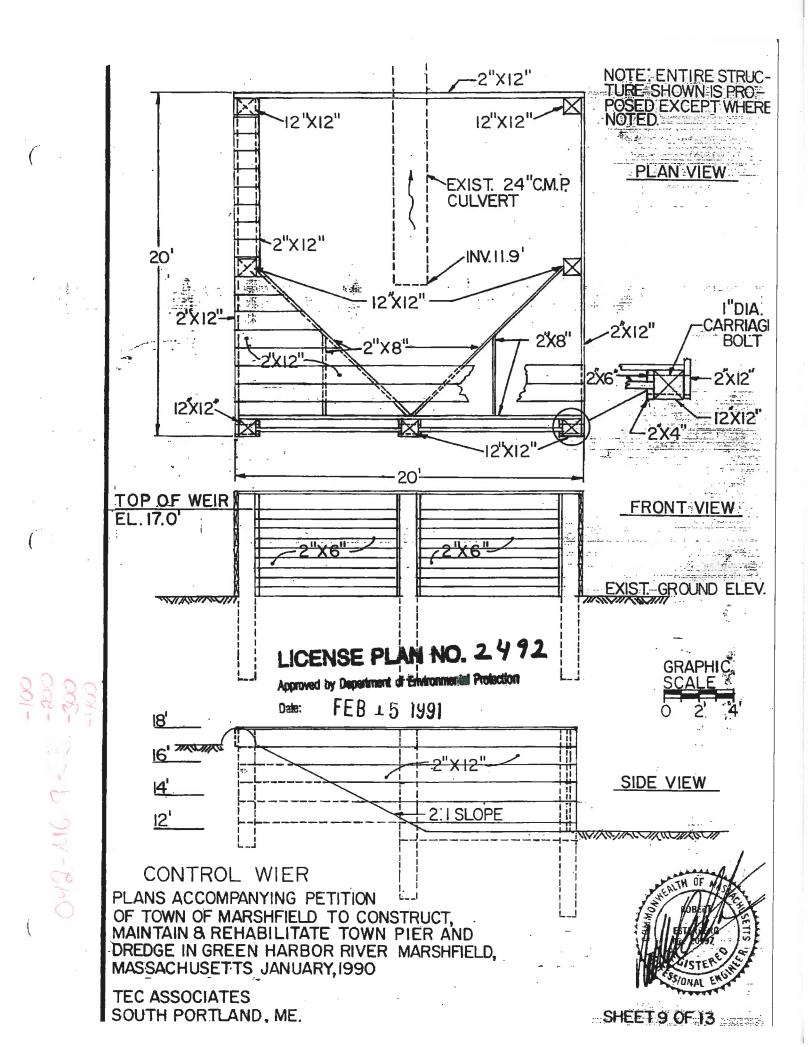
Approved by Department of Environmental Protection

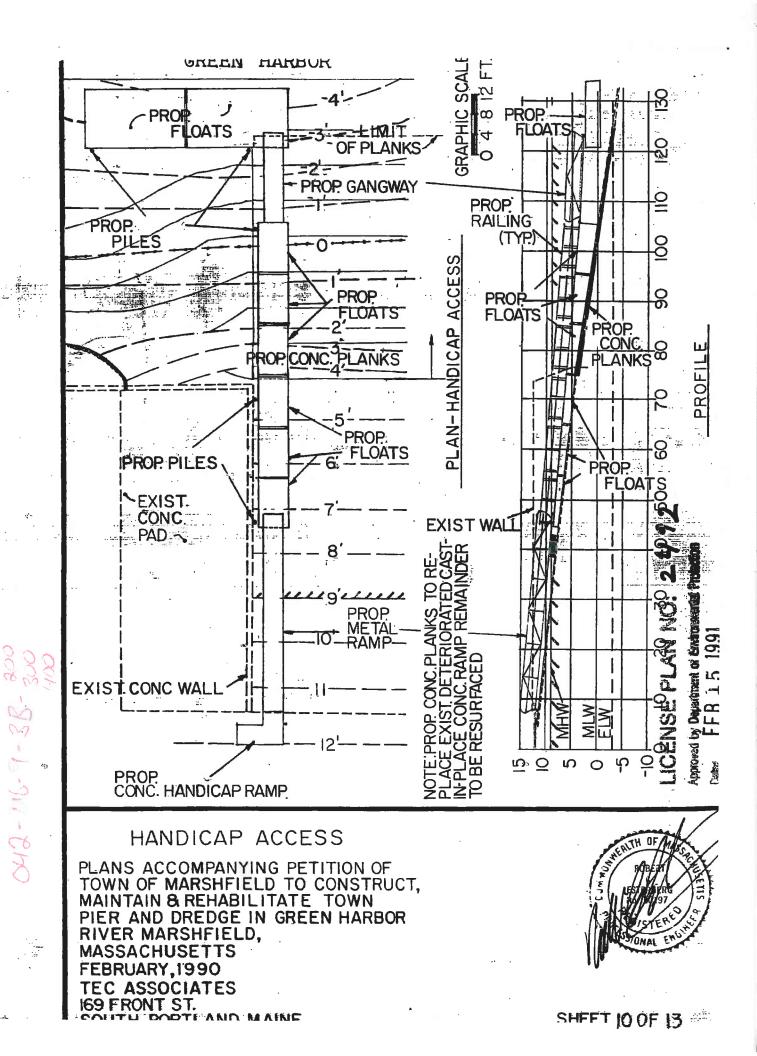
Date: FEB 15 1991

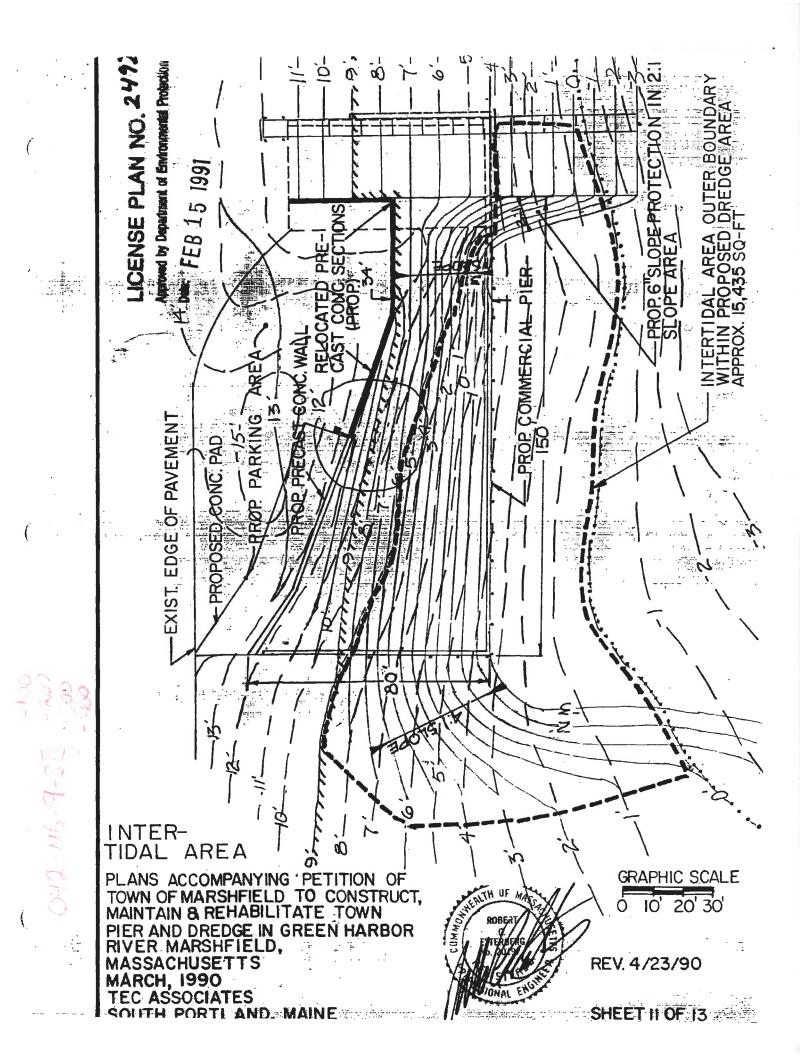
CROSS SECTION PROPOSED DREDGE DISPOSAL AREA
PLANS ACCOMPANYING PETITION OF TOWN OFMARSHFIELD TO CONSTRUCT, MAINTAIN & REHABILITATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD, MASSACHUSETTS
MARCH, 1990
TEC ASSOCIATES
SOUTH PORTLAND MAINE



SHEET 8 OF 13



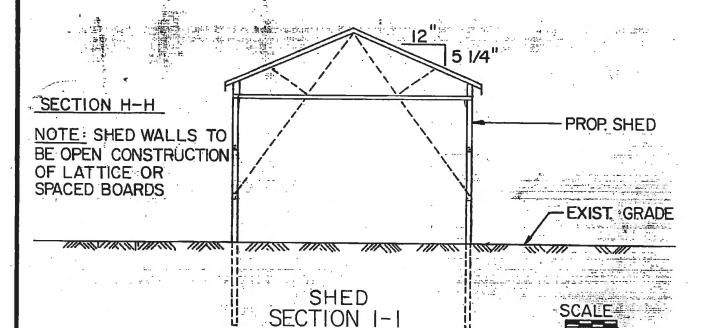


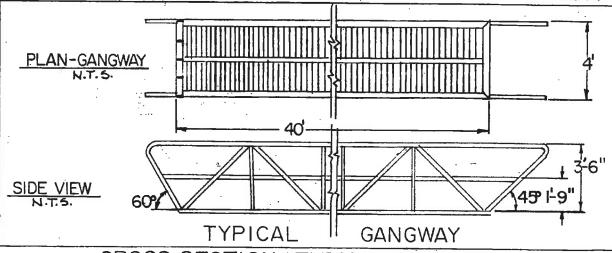


# LICENSE PLAN NO. 2492

Approved by Department of Environmental Protection

Date: FEB 15 1991





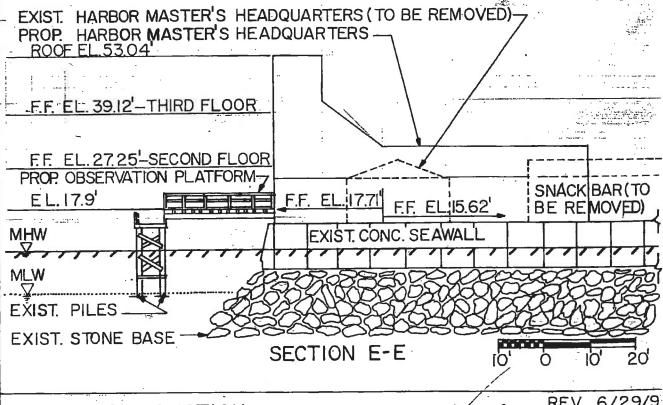
## CROSS SECTION&TYPICAL GANGWAY

PLANS ACCOMPANYING PETITION OF TOWN OF MARSHFIELD TO CONSTRUCT, MAINTAIN & REHABILITATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD, MASSACHUSETTS 4/23/90 TEC ASSOCIATES SOLITH PORTL AND MAINE



SHEET 12 OF 13

LICENSE PLAN NO. Approved by Department of Environmental Protection FEB 15 1991

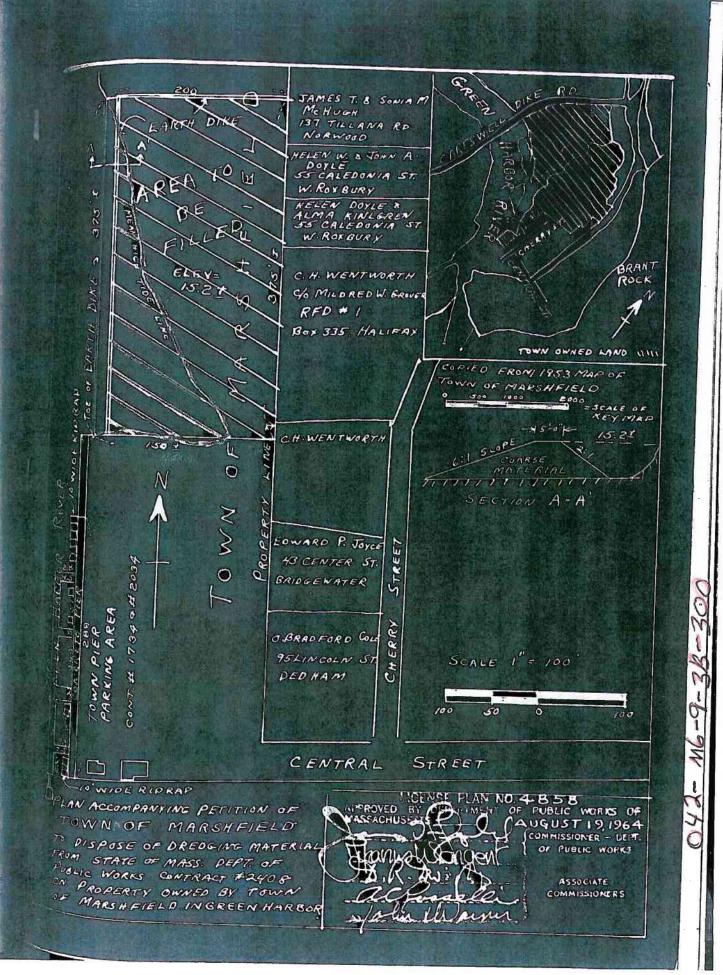


#### SECTION **CROSS**

PLANS ACCOMPANYING PETITION OF TOWN OF MARSHFIELD TO CONSTRUCT MAINTAIN & REHABILITATE TOWN PIER AND DREDGE IN GREEN HARBOR RIVER MARSHFIELD, MASSACHUSETTS JANUARY,1990

TEC ASSOCIATES SOLITH PORTL AND MAINE REV. 6/29/9

SHEET IS OF IS



12 DIFFUSERS ON ALTERNATE SIDES OF OCCAR OUTFALL, SEE SHEET 2 OF 3

្តីMASSACHUSETTS BAY

**WANNESHONER** 

SECTION CHIEF

SICN DIRECT

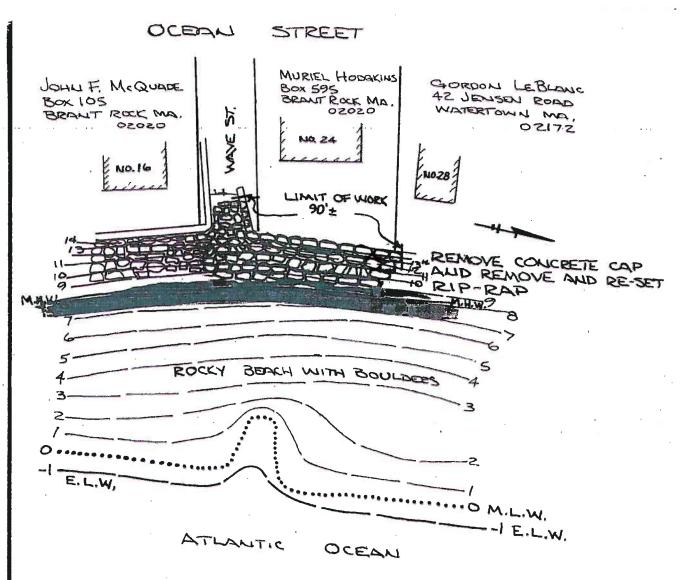
STRUCT A PORTION OF SEA WALL AND CLOSE EXISTING OPENING

OCEAN ST. & WAVE ST. MARSHFIELD

-SCALE 1"=40"

ALONG THE ATLANTIC OCEAN

**MARCH 1990** 

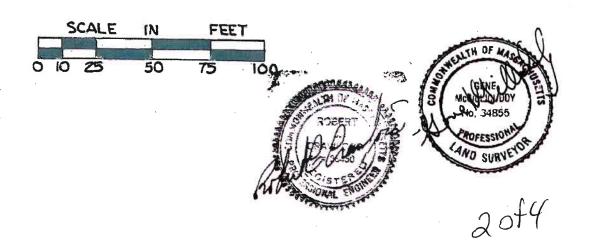


ALL ELEVATIONS ARE BASED UPON MEAN LOW WATER

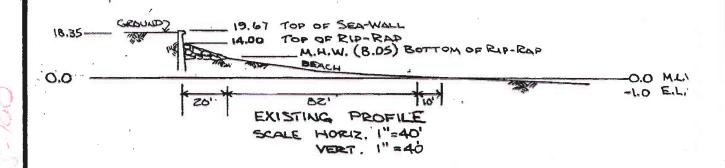
LICENSE PLAN NO. 244/

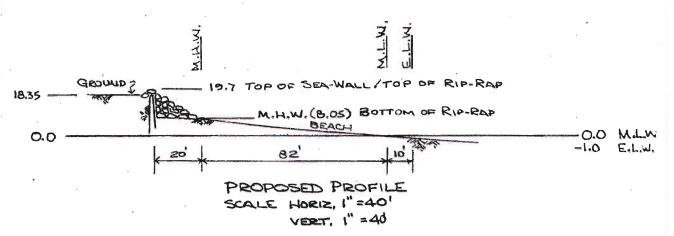
Secretary Decompant of Environmental Protection

NOV 16 1990



042-114-22-100



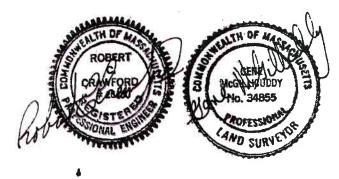


ALL ELEVATIONS ARE BASED UPON MEAN LOW WATER.

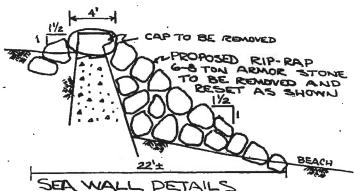
LICENSE PLAN NO. 2441

Medical in Importation in Englishmental Science

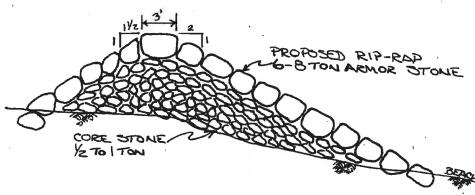
\*\* NOV 16 1990



3094



SEA WALL DETAILS REMOVE AND RESET EXISTING RIP-RAP SCALE I"=8" HORIZQUERT.

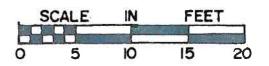


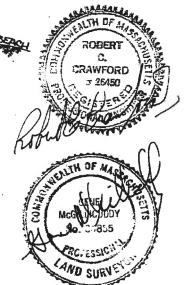
RIP-RAP DETAILS TO CLOSE R.O.W. (WAVE STREET) SCALE I"=8' HORIZ. & VERT.

LICENSE PLAN NO. 244/

Approved by Department of the methodistic Protection

Date: NOV 16 1990

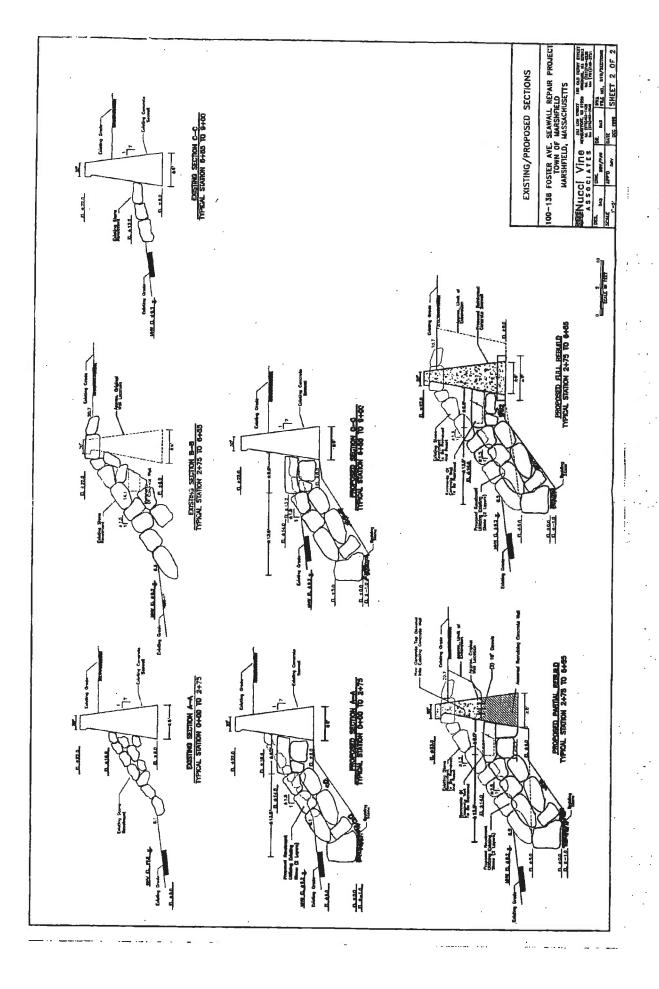


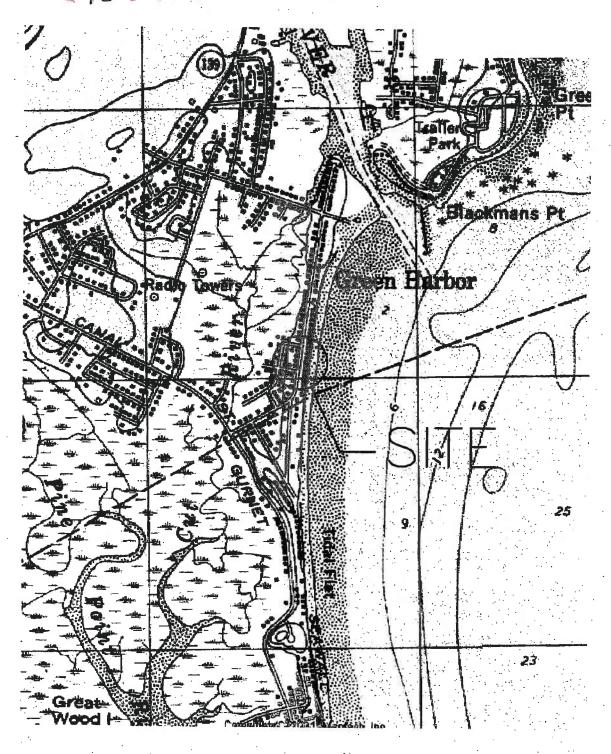


40f4

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

BCE Structure No	Document No	Permit/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
042-L09-024-005-100	042-L09-024-005-100-COE1A	NAE-CO- 199803637	Town of Marshfield	Marshfield	DEC 1996	100-138 Foster Ave, Seawall Repair Project	2	Foster Ave., I Front of First, Second and Third Roads	
042-L10-024-005-100	042-L10-024-005-100-COE1B	NAE-CO- 199803637	Town of Marshfield	Marshfield	DEC 1996	100-138 Foster Ave, Seawall Repair Project	2	Foster Ave., I Front of First, Second and Third Roads	
042-M04-021-003-100	042-M04-021-003-100 042-M04-021-003-100-COE1A	NAE-20052621	USACE	Marshfield	JUL 2005	80 Bay Ave, Seawall and Revetment Repair	3		
042-M06-009-003B-100	042-M08-009-003B-100 042-M08-009-003B-100-COE1A	NEDNP-57-159	MADPW	Marshfield	APR 1957	Proposed Timber Pler and Seawall, Green Harbor	3	Town pier at Cherry Street	
042-M08-042-002-100	042-M08-042-002-100 042-M08-042-002-100-COE1A NEDNP-58-65	NEDNP- 56-65	MADPW	Marshfield	FEB 1956	Proposed Sand Fill, Stone Apron& Steel Piling Revetment, Brant Rock Shore	2	Ocean Ave.	Concrete Seawall Reinforcement
042-M09-001-007-100	042-M09-001-007-100 042-M09-001-007-100-COE1A	CENED -R- 200300006, CENED -R- 2001101477	USACE	Marshfield	DEC 2002	Foster Ave Revelment, Seawall and Ramp Reconstruction	cs.	Foster Ave., North of Brook Street	
042-M09-006-009-100	042-M09-006-009-100-COE1A	CENED -R- 200300008	USACE	Marshfield	DEC 2002	Foster Ave Revetment, Seawall and Ramp Reconstruction	6	Foster Ave., North of Brook Street	
042-N05-001-012-100	042-N05-001-012-100 042-N05-001-012-100-COE1A NEDNP- 31-127	NEDNP- 31-127	MADPW	Marshfield	MAR 1831	Proposed Jetty Repairs and Proposed Dredging and Solid Fill, Green Harbor	-	East Jetty, Green Harbor	





DATUM: MLW = 0.0

MHW = 9.2

AHT = 11.5

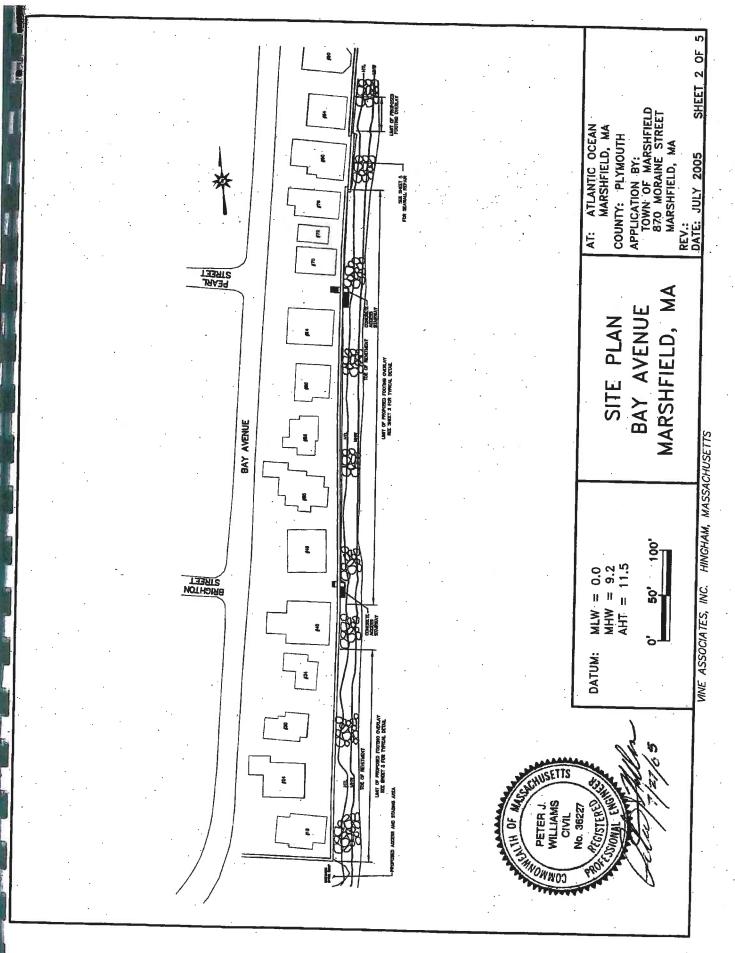
LOCUS PLAN BAY AVENUE MARSHFIELD, MA

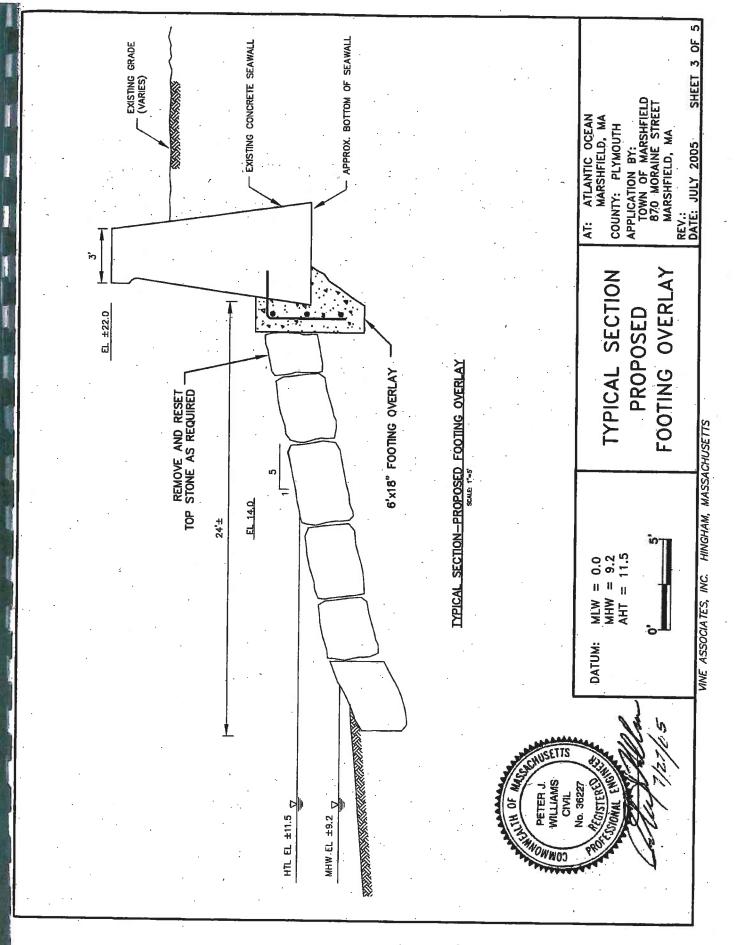
ATLANTIC OCEAN MARSHFIELD, MA COUNTY: PLYMOUTH

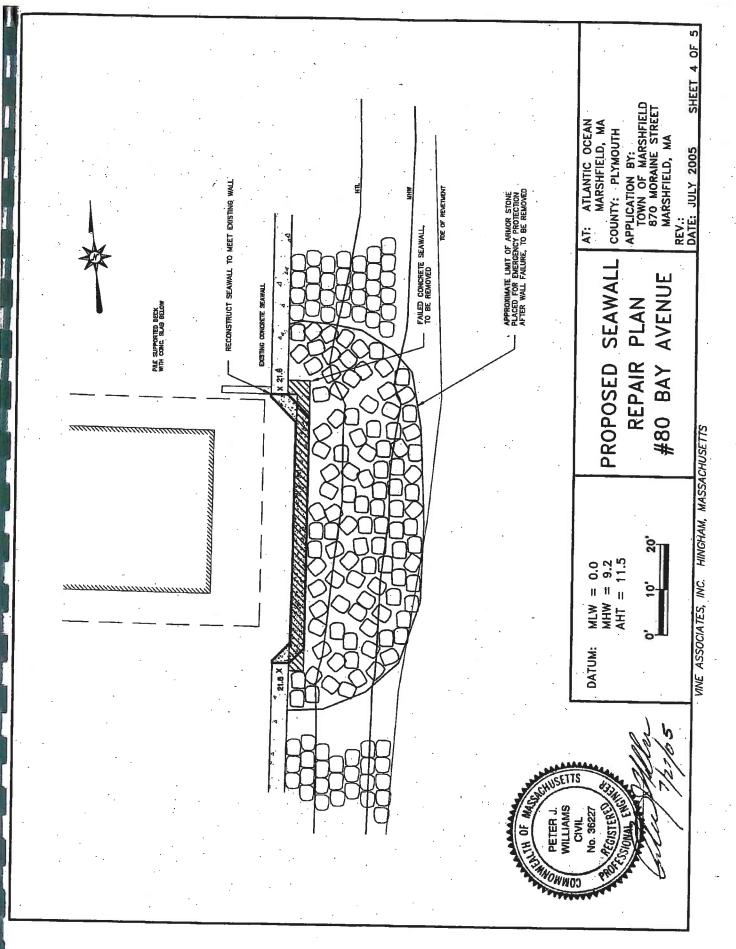
APPLICATION BY:
TOWN OF MARSHFIELD
870 MORAINE STREET MARSHFIELD, MA

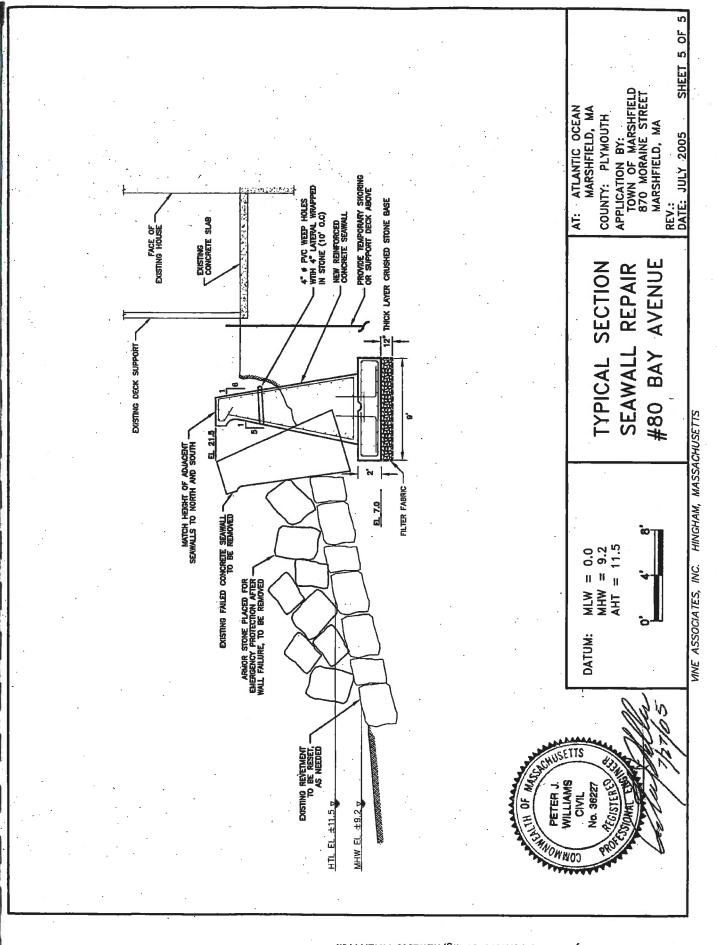
JULY 2005

SHEET 1 OF 5





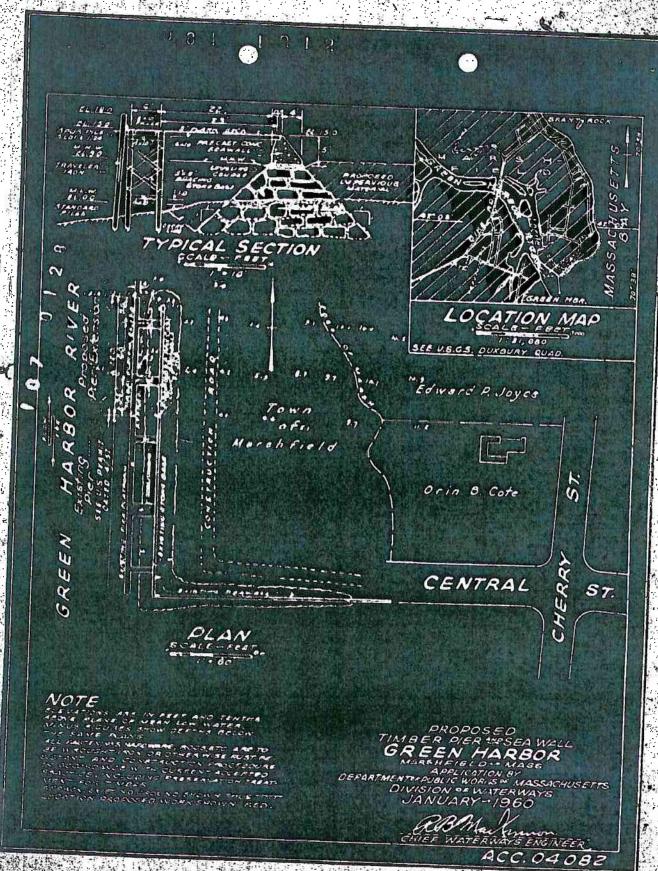


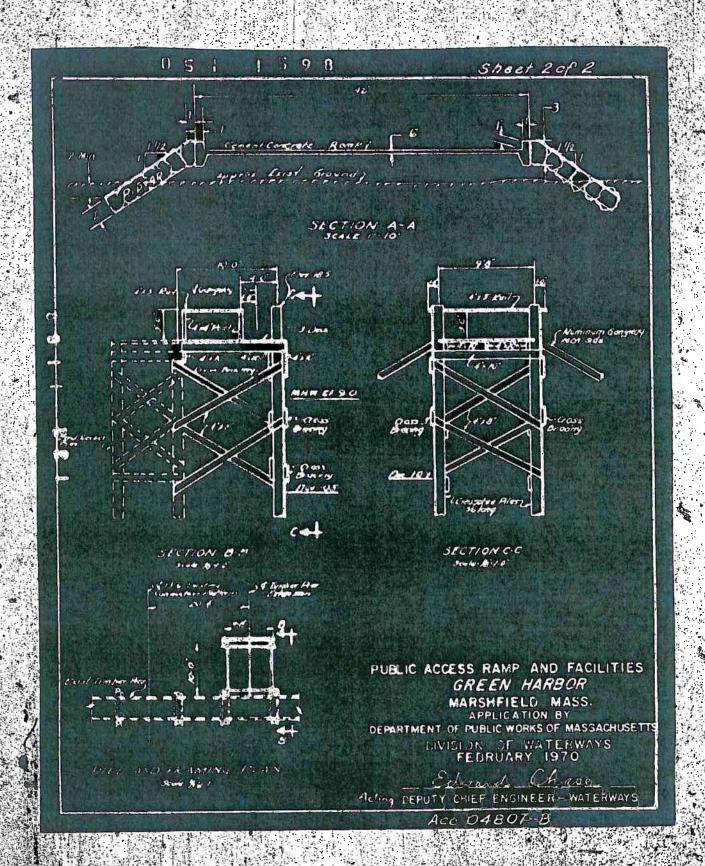


042-0m6-009. - 0313-100 USACK NEPNP 57-159 LOCATION PLAN SECTION BE Edward A. Joyce Proposed Timber Pier and Pre-cast Conc. Walls MARBOR Norshfield 57. CHERRY CENTRAL 57 **1** Alten H. PLAN SCALE-FEET

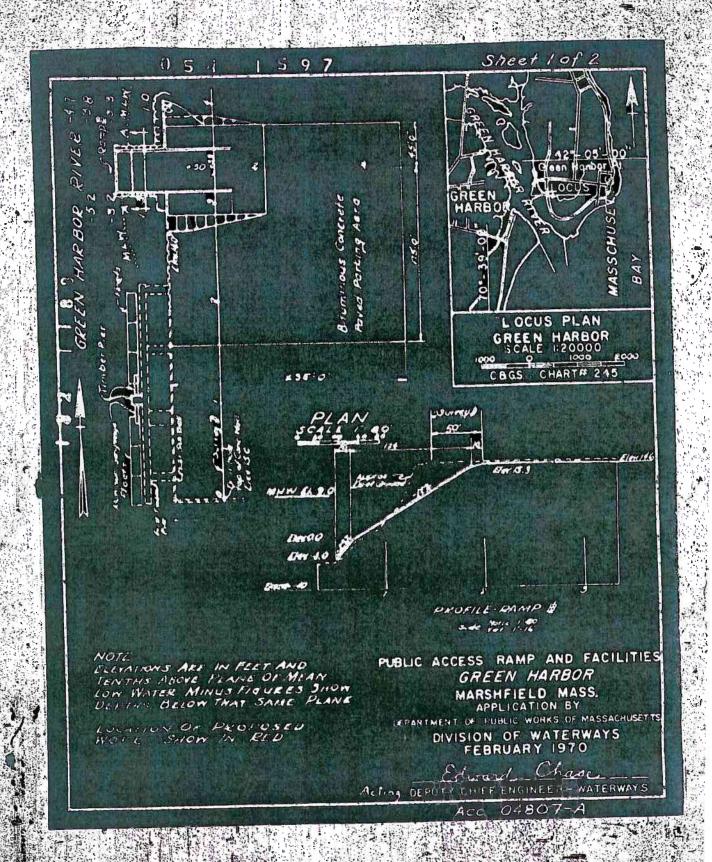
PROPOSED TIMBER PIER TO SEA WALL GREEN HARBOR

ACC.03688





JU



USACK NEDNA 56-65

ATION MAP

SEE U.S. GEOL. SURV. DUXBURY QUAD

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2007-200-27

PLAN

NOTE
ELEVATIONS ARE IN SELT AND TENTHS
ABOVE FLANC OF MEAN LOW WATER.
WINDS FIGURES SHOW DEFTHS BELOW
THE SAME PLANS.
LOCATION OF PROPOSED WORKS SHOWN
IN RED

SAND FILL, STONE APRON

\$ STEEL PLING REVETMENT
BRANT ROCK SHORE

MASSACHUSETTS BAY

MARSHEEL TO BAY

MASSACHUSETTS BAY

MARSHFIELD MASS.

DEFAREMENT OF PUBLIC WORKS OF WASSACHUSETTS

DIVISION OF WATERWAYS

FEBRUARY 1956

Robert B. Phackenna.

DISTRICT WATERWAYS ENGINEER.

ACC.03508-A

0 8 0 9 4 8 5

SHEET 20F2

SECTION AA

SECTION BE

SECTION CC

SAND FILL SECTION

NOTE

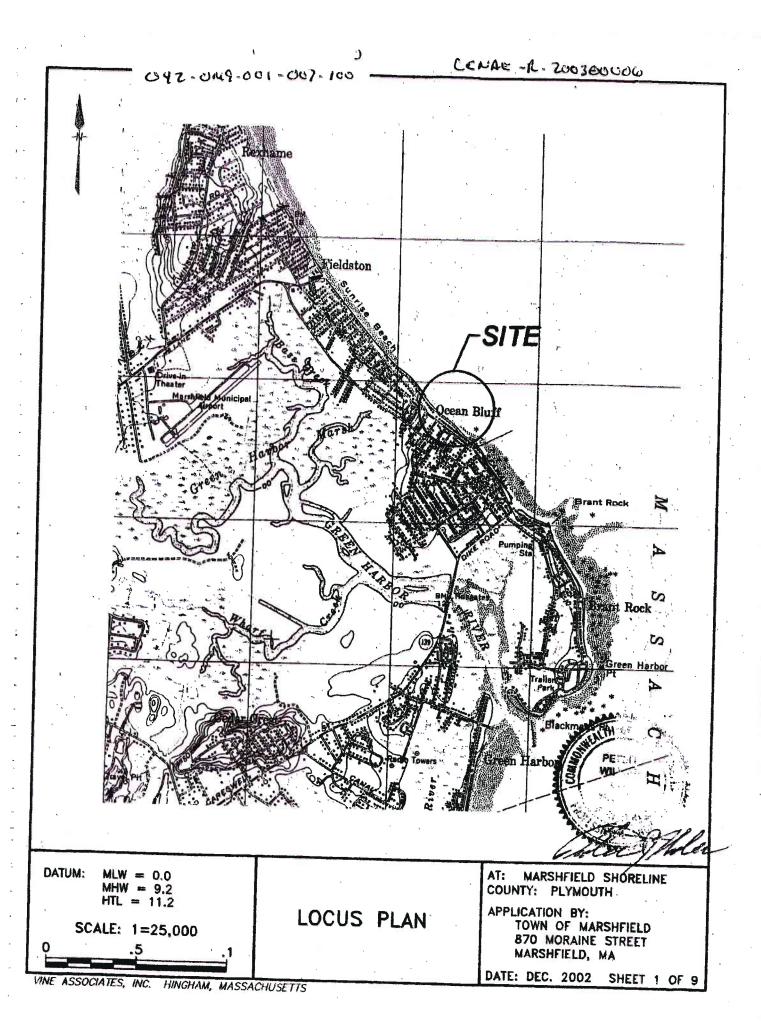
APPROX. EMISTING GROUND STOWN THUS SMEET PLUNG FORM 12 LONG AND A MINIMON OF THE SUNGE PER TOURIE FROT OF WALL. BLL COMMIT CONSECTE TO DO CORDE A AIR-

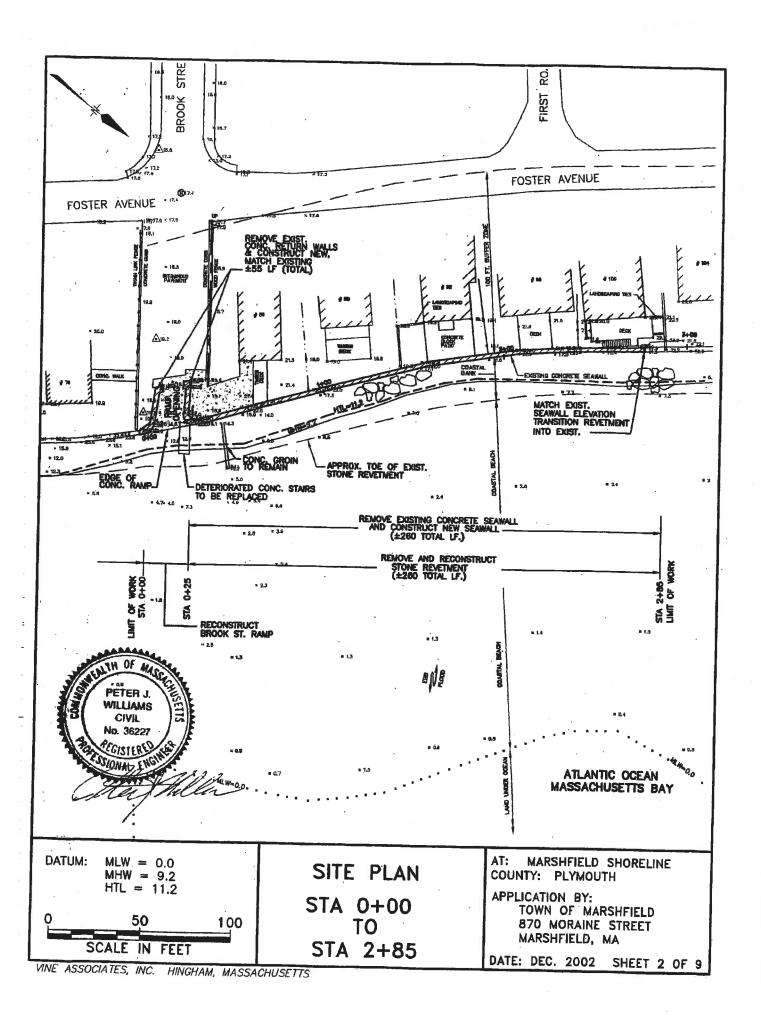
CONCRETE CAR S TO BE RUNFORCED BY THE STEEL ROOM REMOVED IN ACCORDANCE WITH ACCEPTED STANDAMO PRACTICE PROPOSEO
SANO FILL, STONE APPON
É STEEL PILING REVETMENT
BRANT ROCK SHORE
MASSACHUSETTS BAY
MARSHEIELO, MASS.

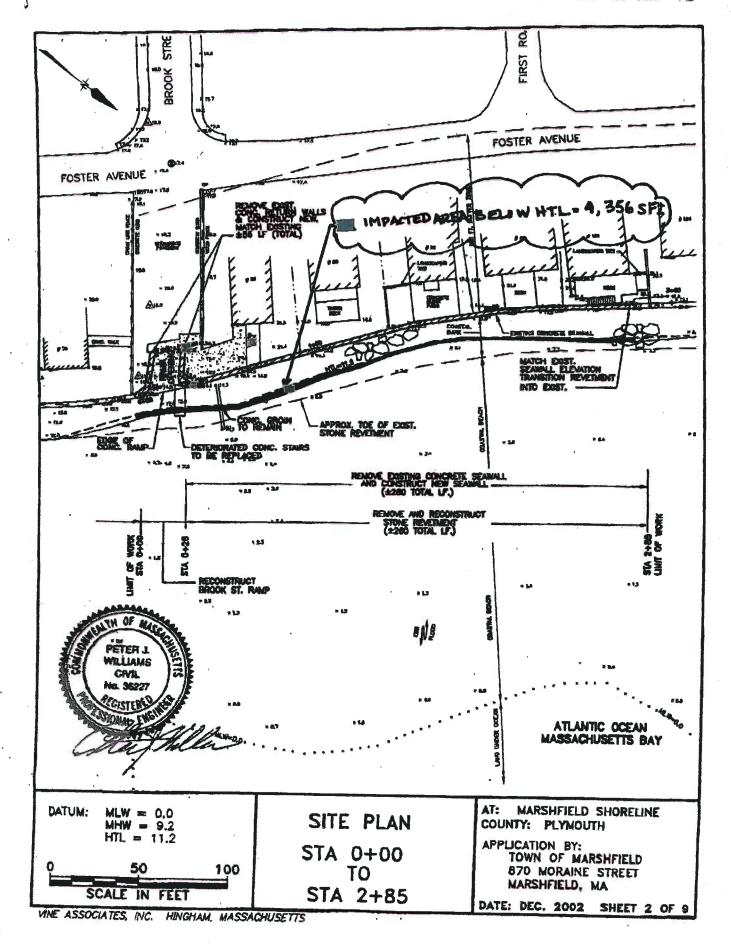
ALARSHEIELO, MASS.
DEPARTMENT DURING WASSACHUSEL
DIVISION OF WATERWAYS
FEBRUARY 1956

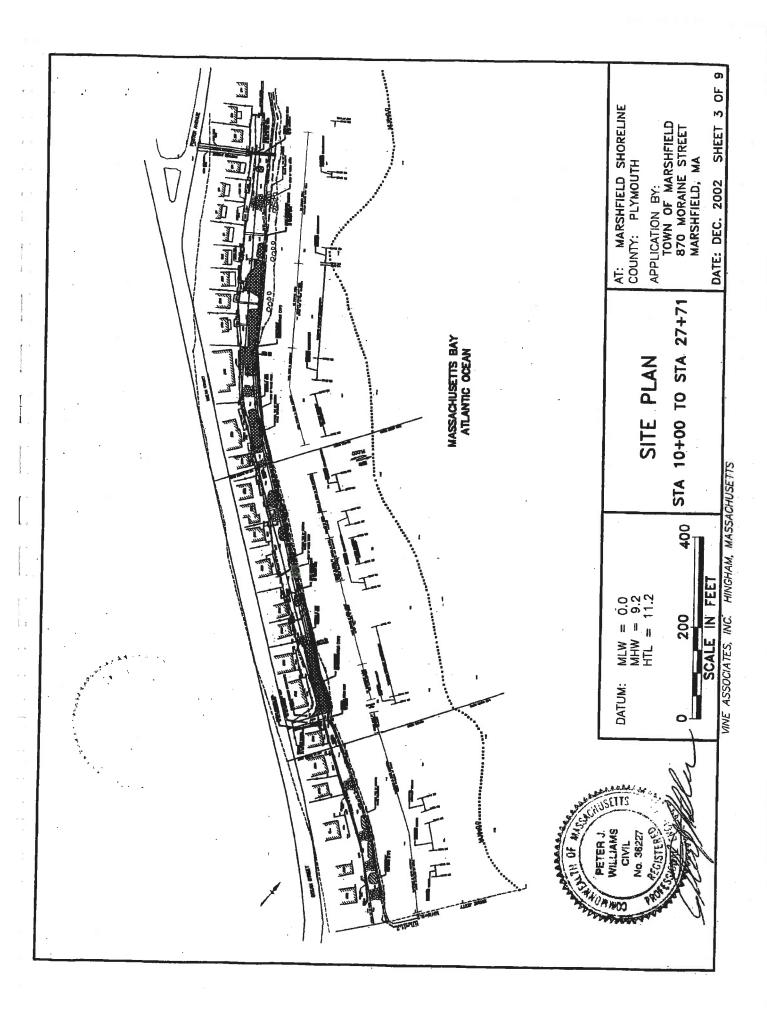
PEBRUARY 1956 Robert B. Marking

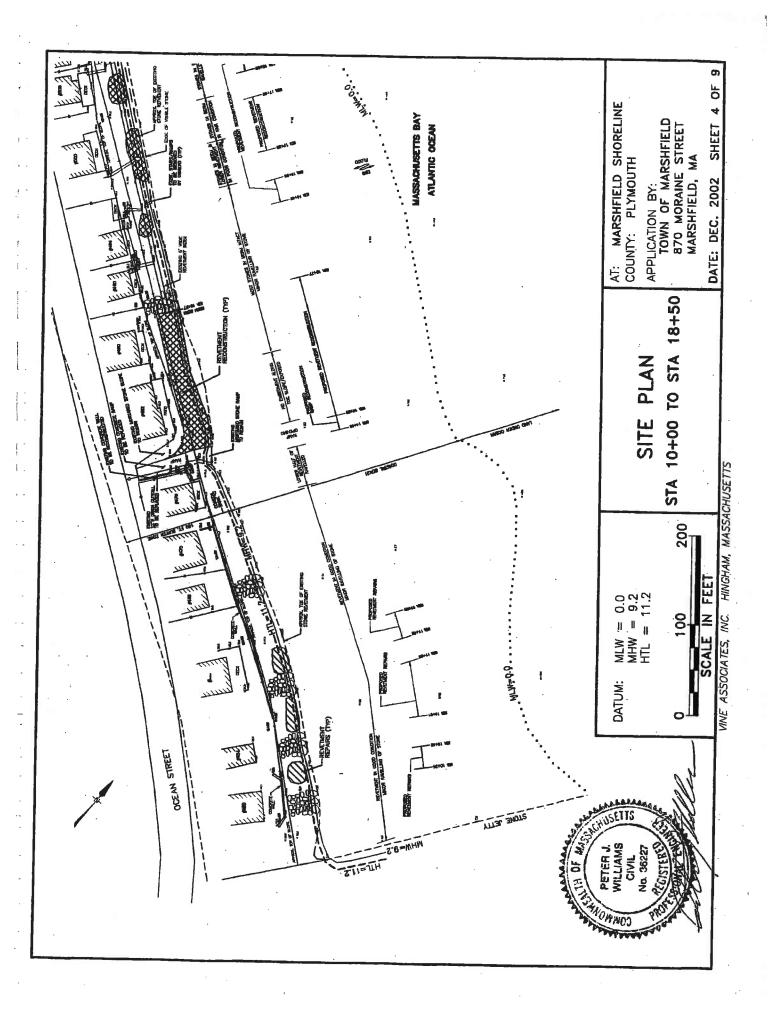
ACC.03508-B

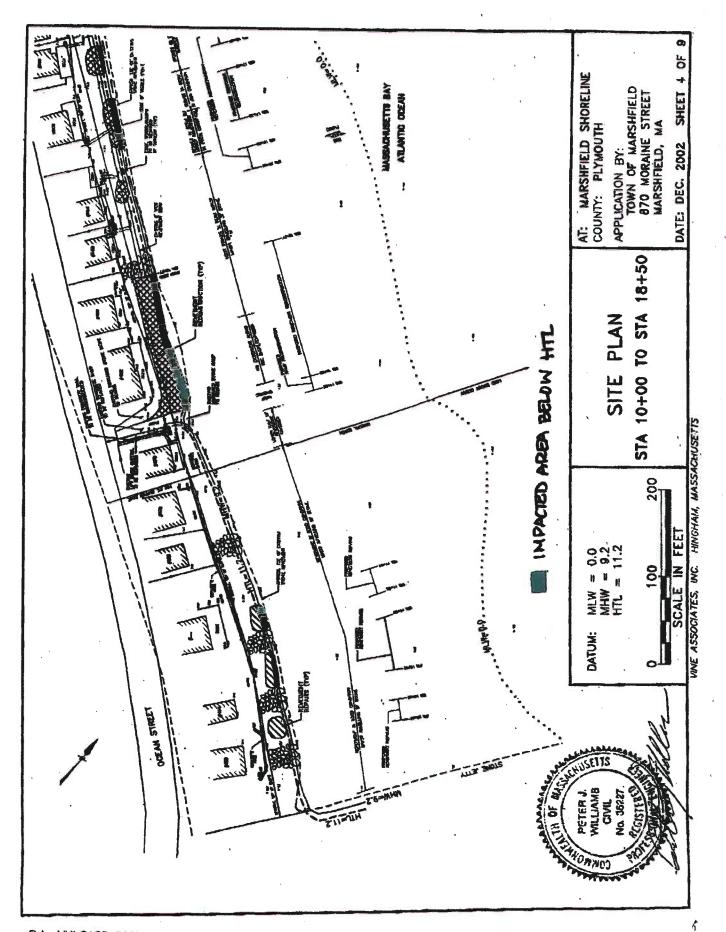


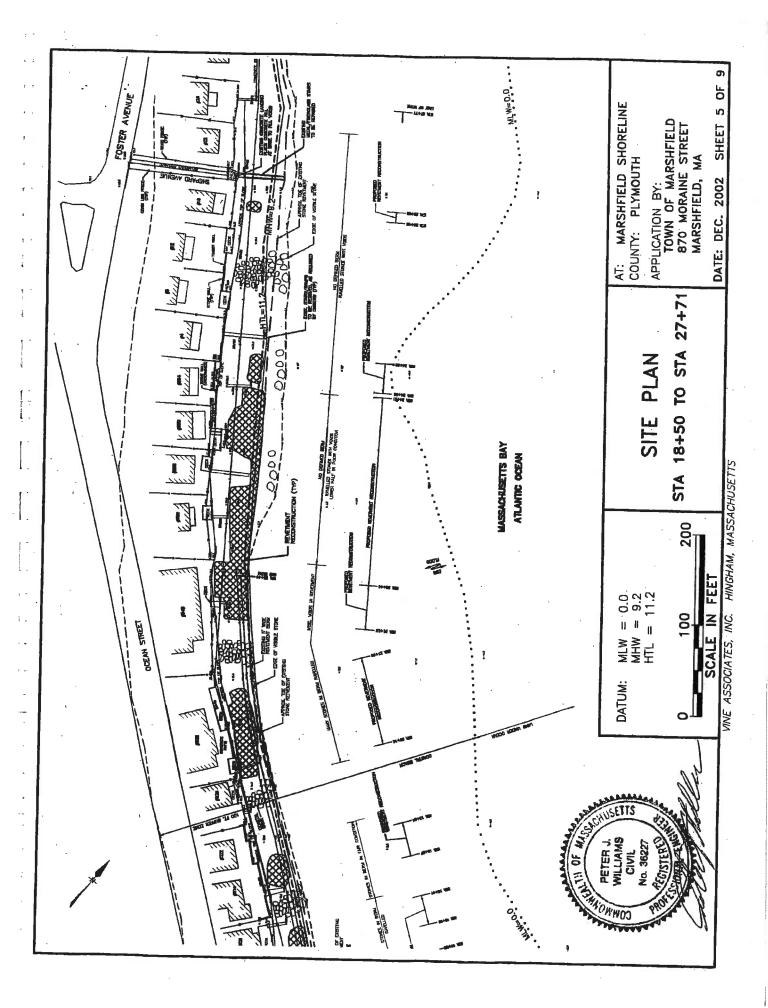


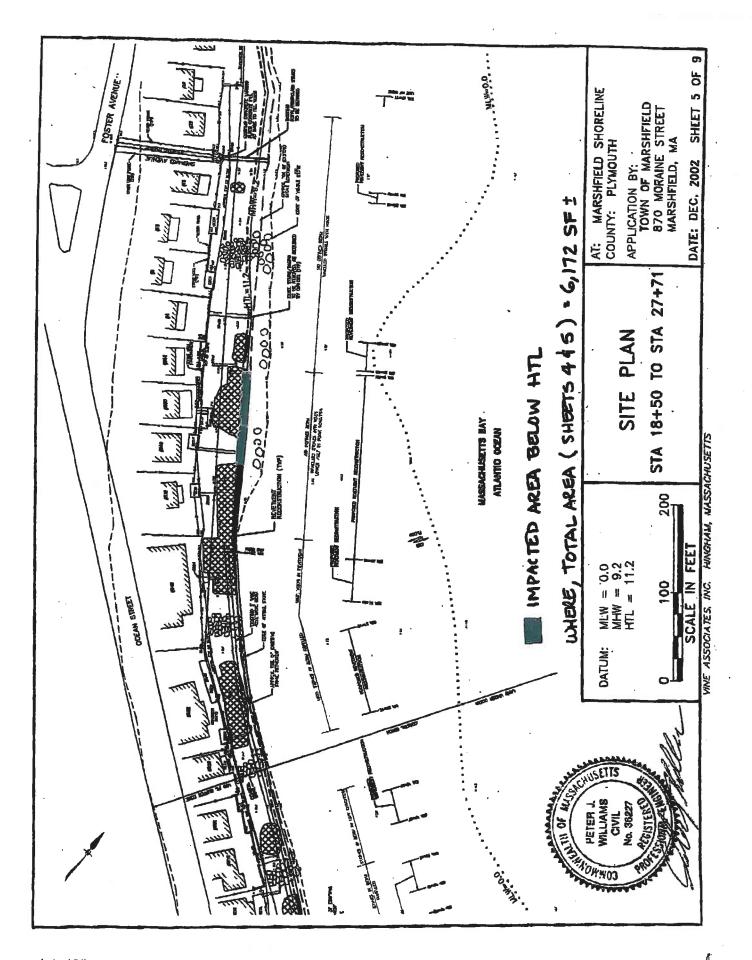


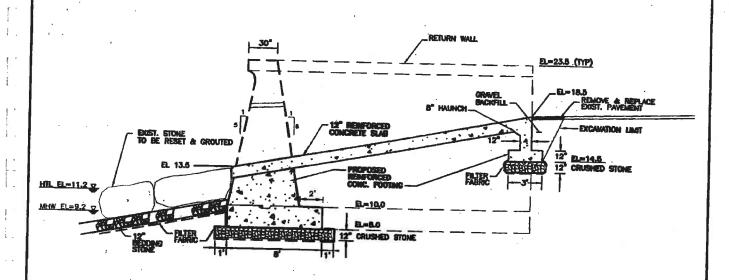


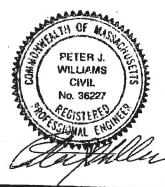












DATUM: MLW = 0.0

MHW = 9.2 HTL = 11.2

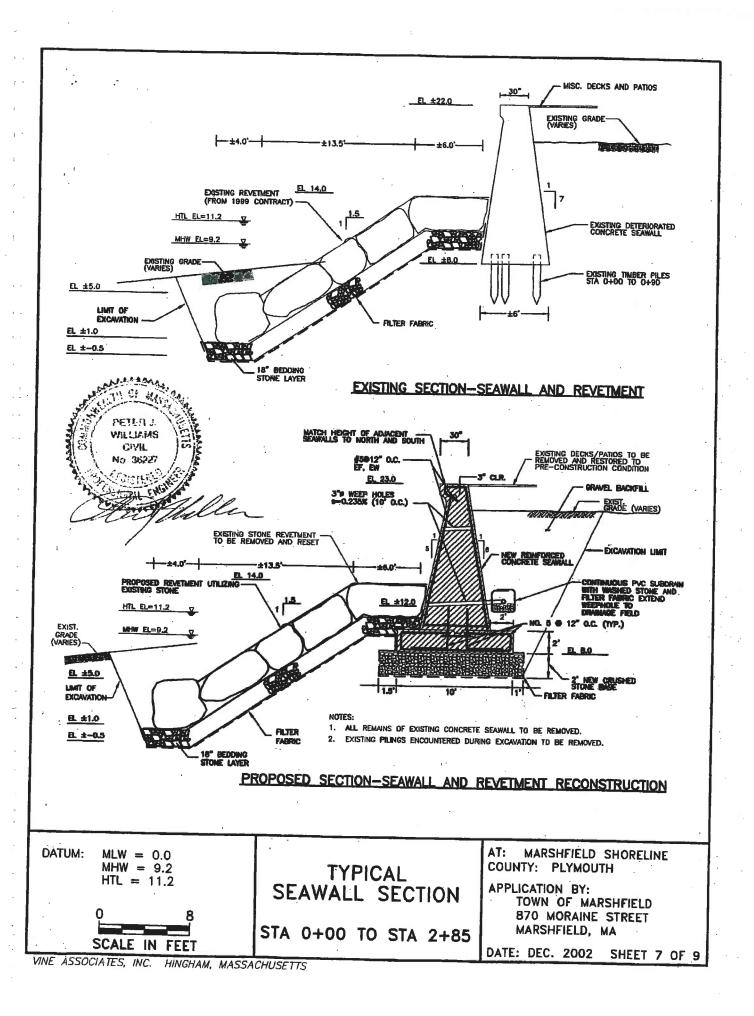
O 8
SCALE IN FEET

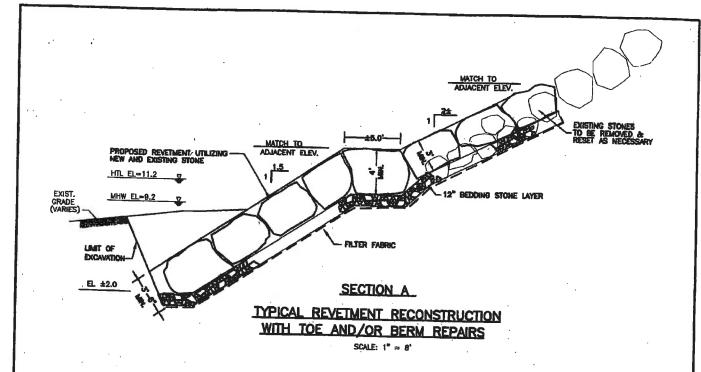
PROPOSED
RAMP RECONSTRUCTION
(TYPICAL)

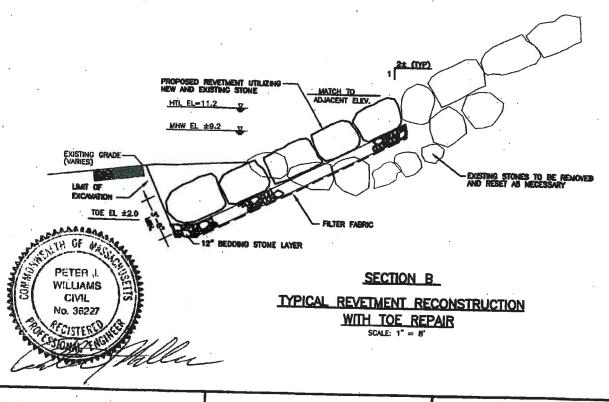
STA 0+00 TO STA 0+25 STA 14+03 TO STA 14+20 AT: MARSHFIELD SHORELINE COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF MARSHFIELD
870 MORAINE STREET
MARSHFIELD, MA

DATE: DEC. 2002 SHEET 6 OF 9







DATUM:

 $\begin{array}{l} MLW = 0.0 \\ MHW = 9.2 \end{array}$ 

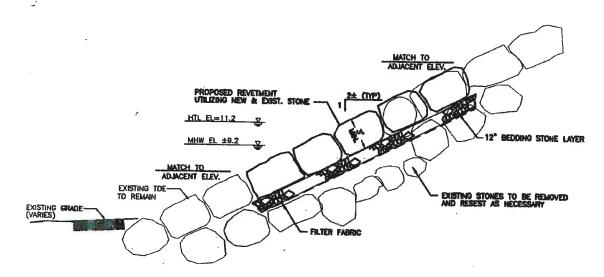
HTL = 11.2

0 8 SCALE IN FEET PROPOSED REVETMENT RECONSTRUCTION AT: MARSHFIELD SHORELINE

COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF MARSHFIELD
870 MORAINE STREET
MARSHFIELD, MA

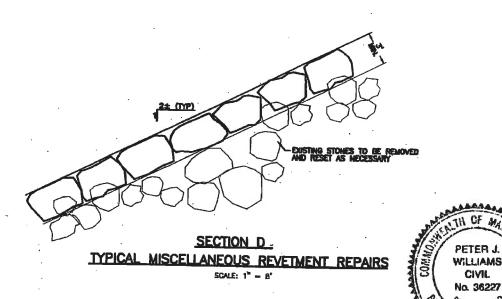
DATE: DEC. 2002 SHEET 8 OF 9



### SECTION C

# TYPCIAL REVETMENT RECONSTRUCTION

SCALE: 1" - 8"



DATUM:

MLW = 0.0MHW = 9.2

HTL = 11.2



**PROPOSED** REVETMENT RECONSTRUCTION AND REPAIRS

MARSHFIELD SHORELINE

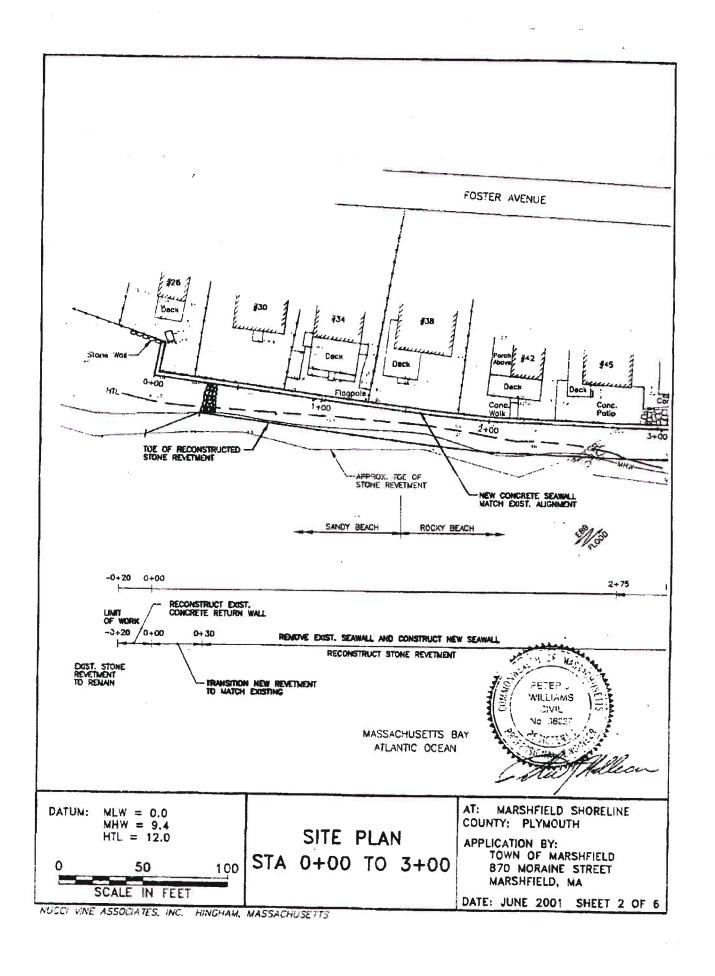
CIVIL

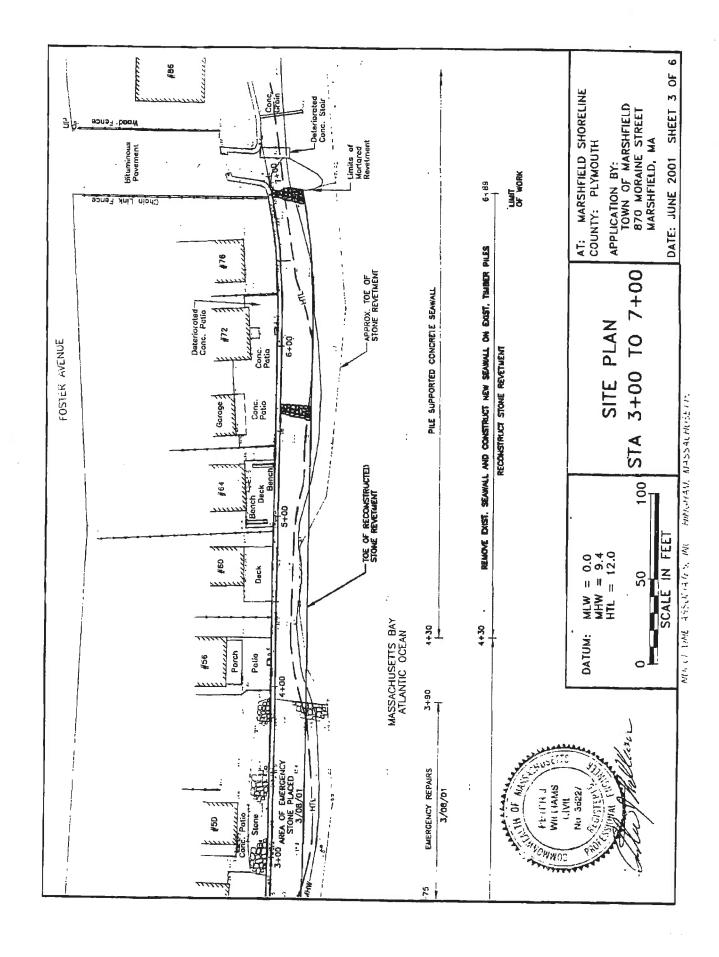
COUNTY: PLYMOUTH

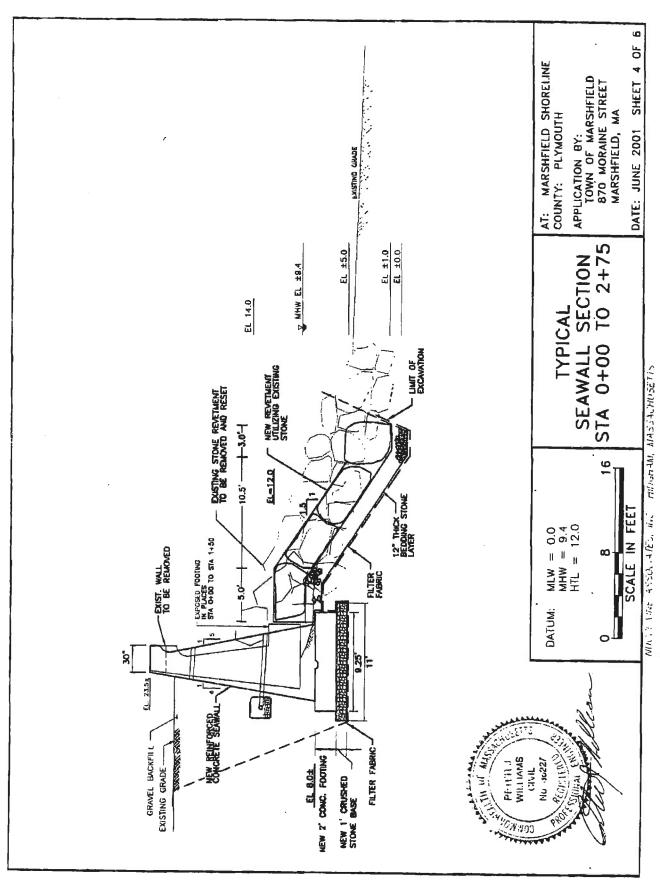
APPLICATION BY: TOWN OF MARSHFIELD 870 MORAINE STREET MARSHFIELD, MA

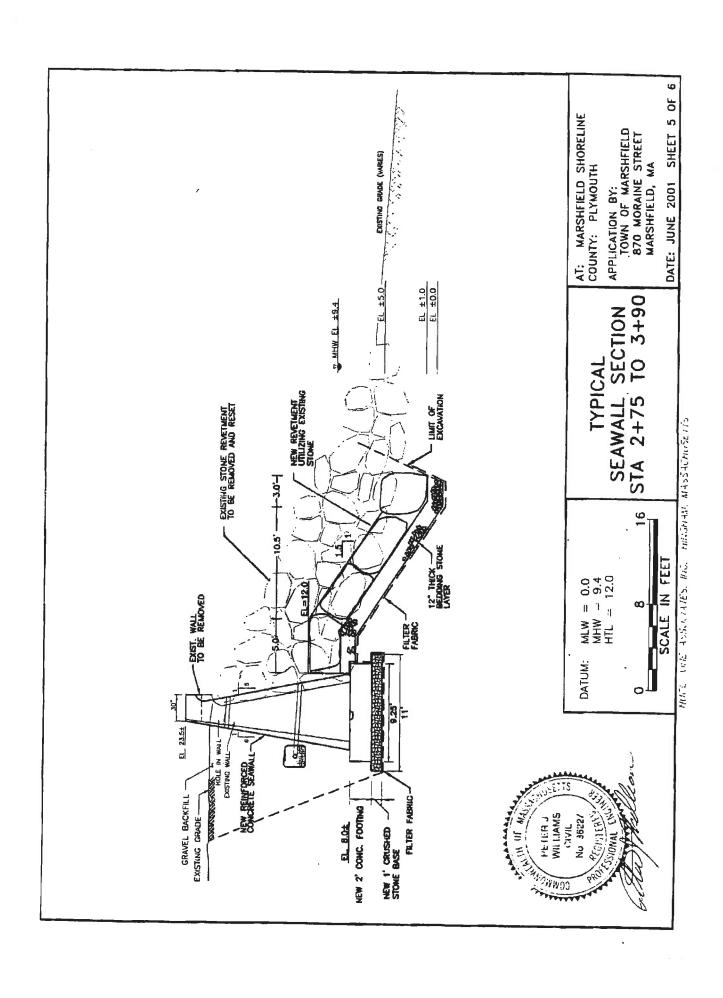
DATE: DEC. 2002 SHEET 9 OF 9

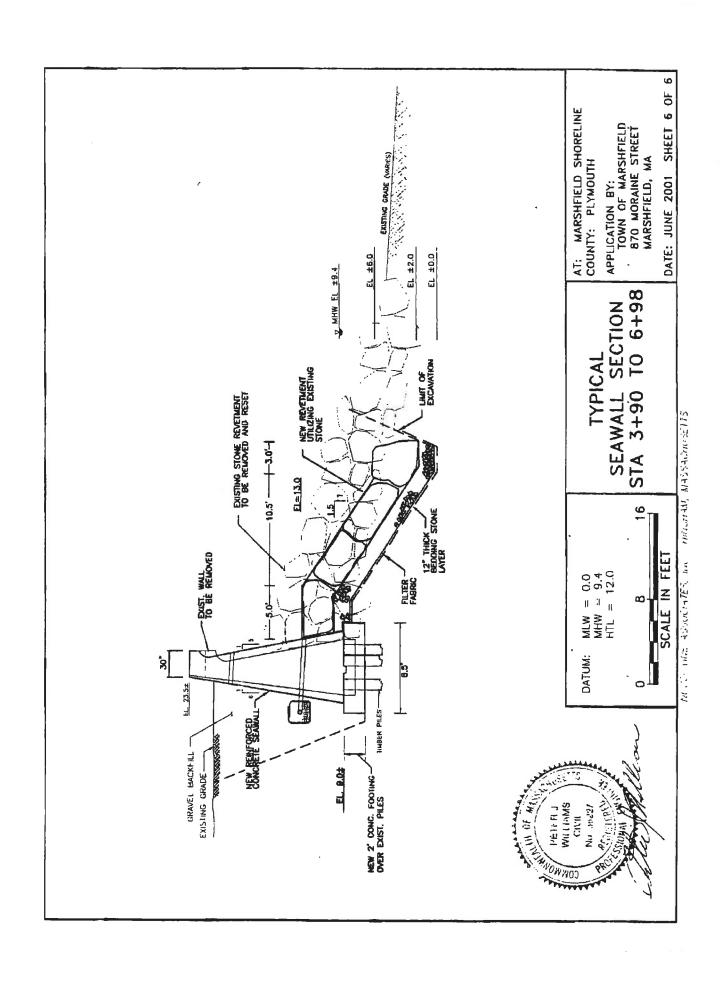
# 042-0M9-001-007-100 SWELLIAMS CIME No. 36227 ielaston . SITE Qcean Bluff Green Earbor DATUM: MLW = 0.0 MHW = 9.4 HTL = 12.0 AT: MARSHFIELD SHORELINE COUNTY: PLYMOUTH LOCUS PLAN APPLICATION BY: TOWN OF MARSHFIELD 870 MORAINE STREET MARSHFIELD, MA SCALE IN MILES DATE: JUNE 2001 SHEET 1 OF 6 NUCCI VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

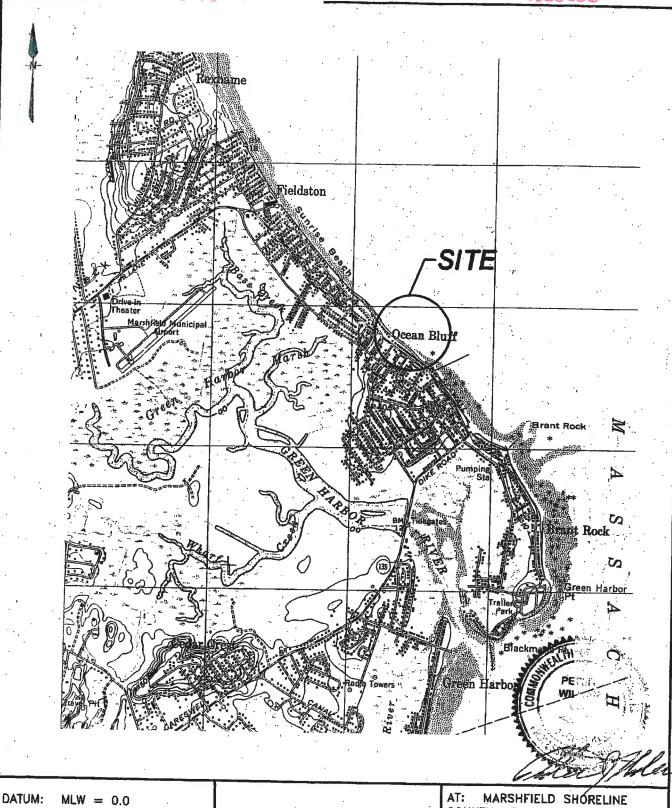












MHW = 9.2 HTL = 11.2

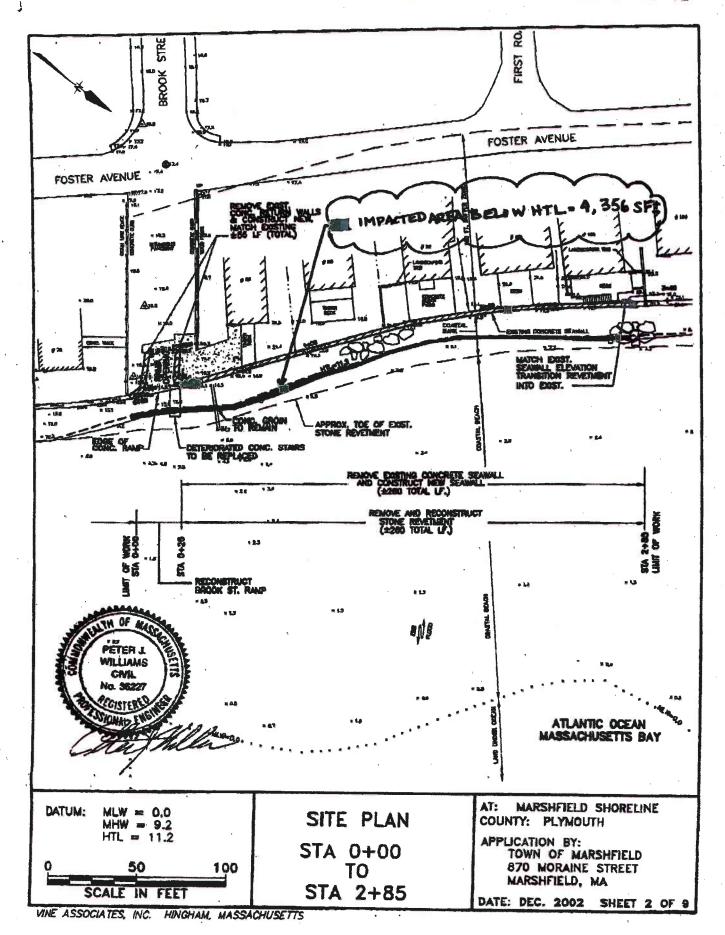
SCALE: 1=25,000

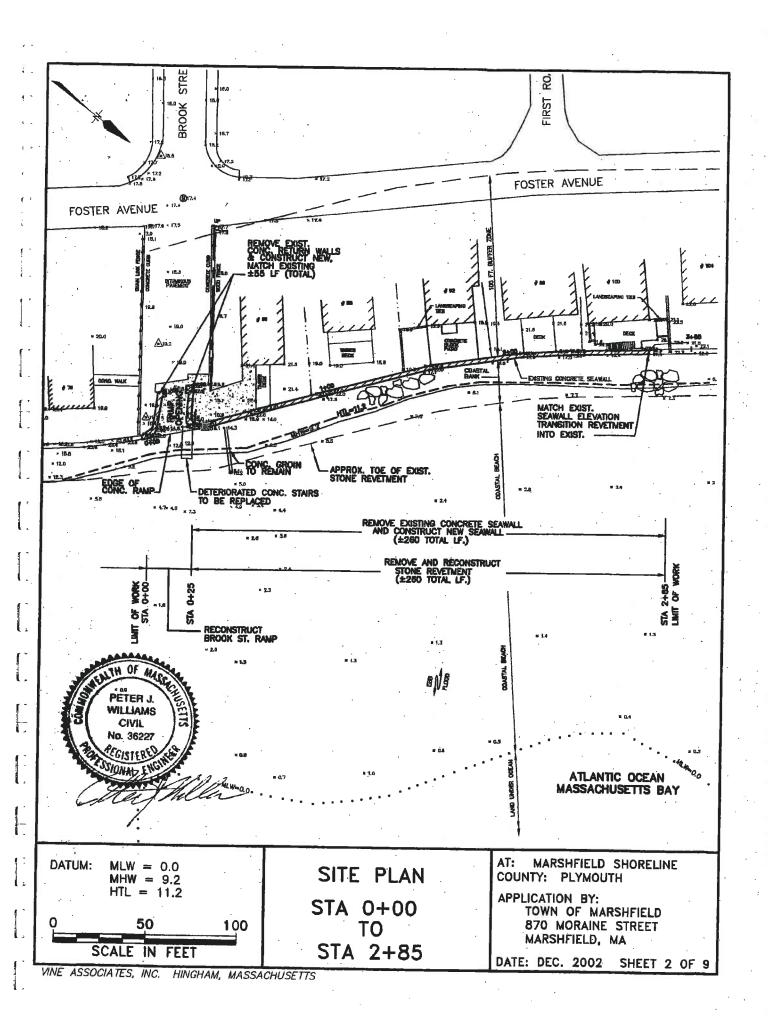
LOCUS PLAN

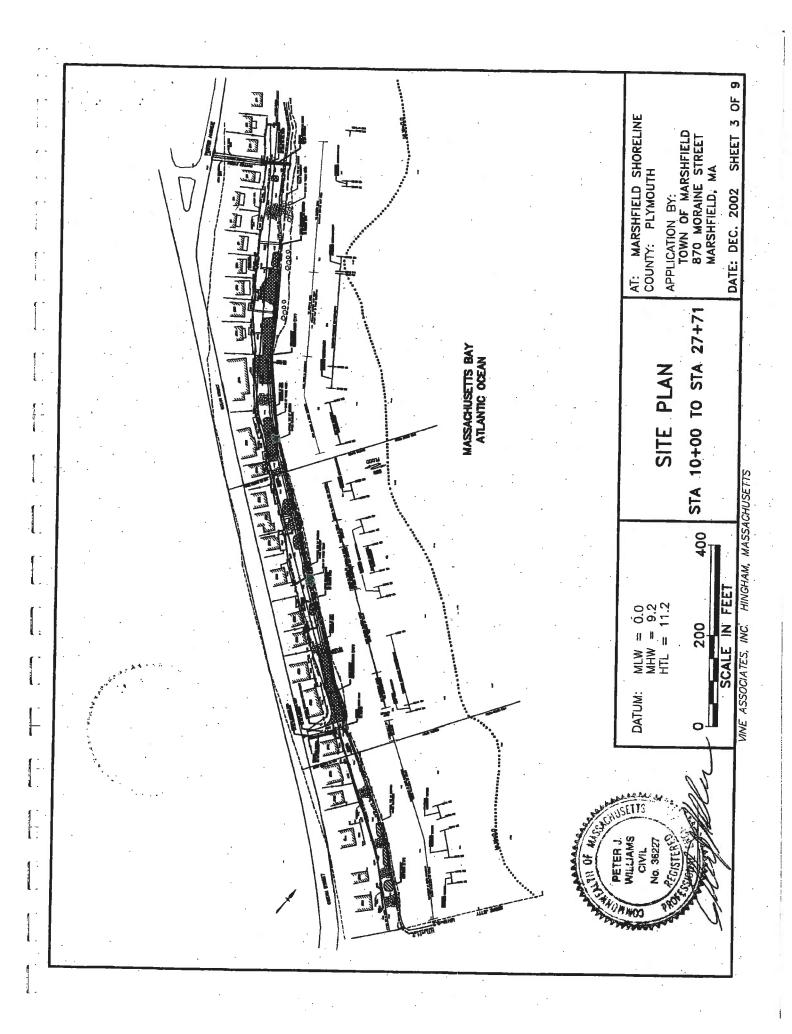
AT: MARSHFIELD SHORELINE COUNTY: PLYMOUTH

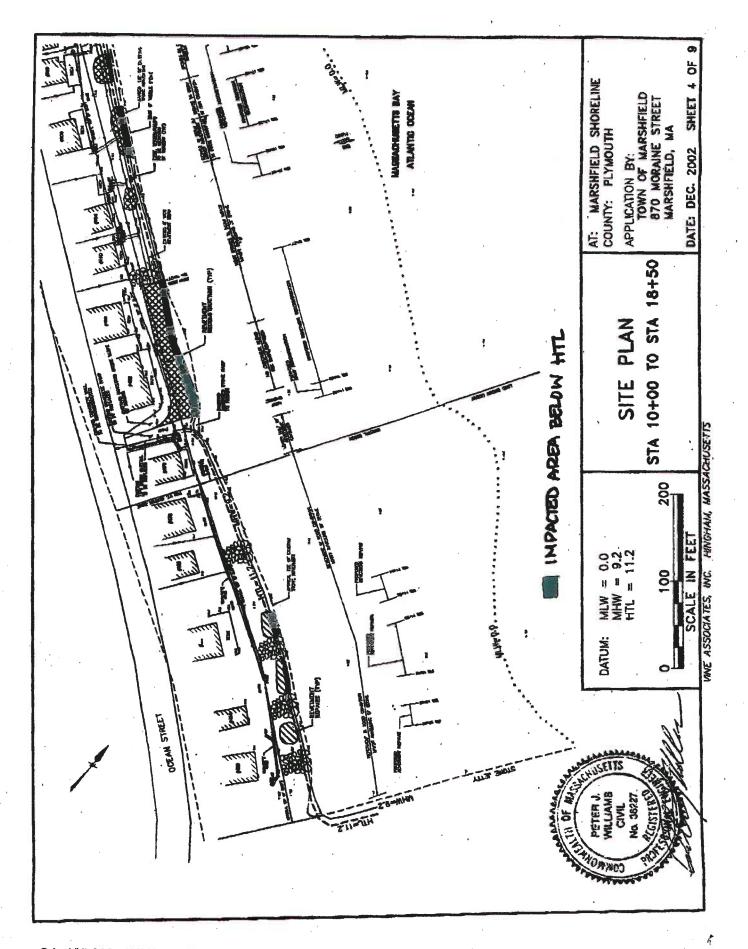
APPLICATION BY: TOWN OF MARSHFIELD 870 MORAINE STREET MARSHFIELD, MA

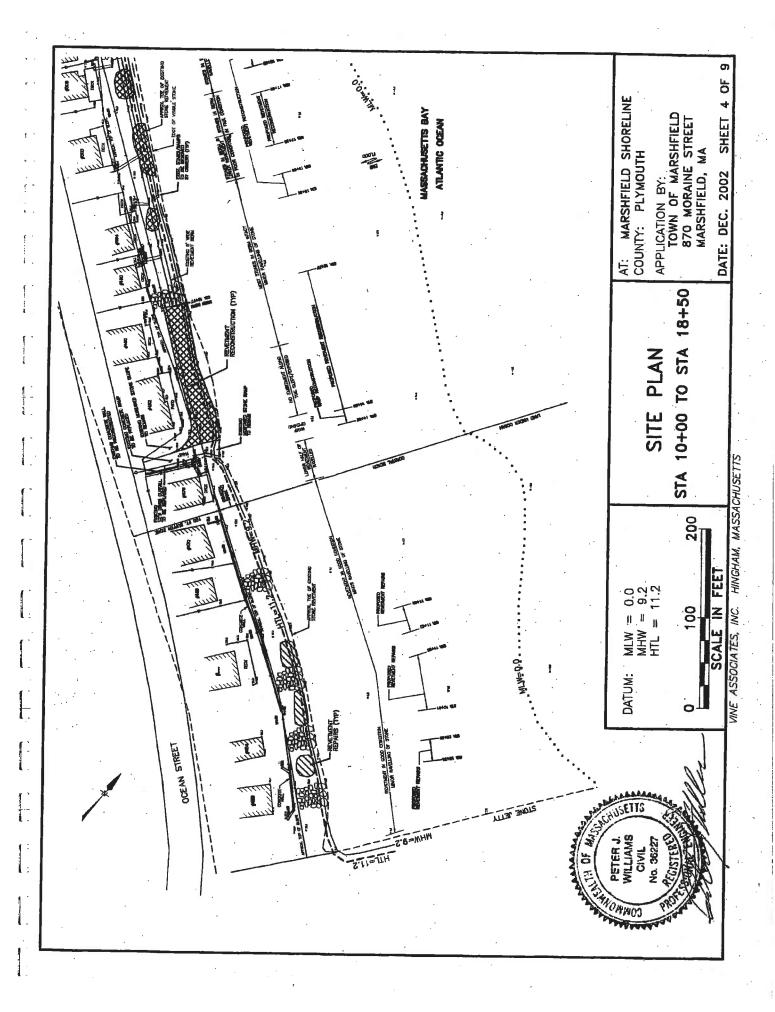
DATE: DEC. 2002 SHEET 1 OF 9

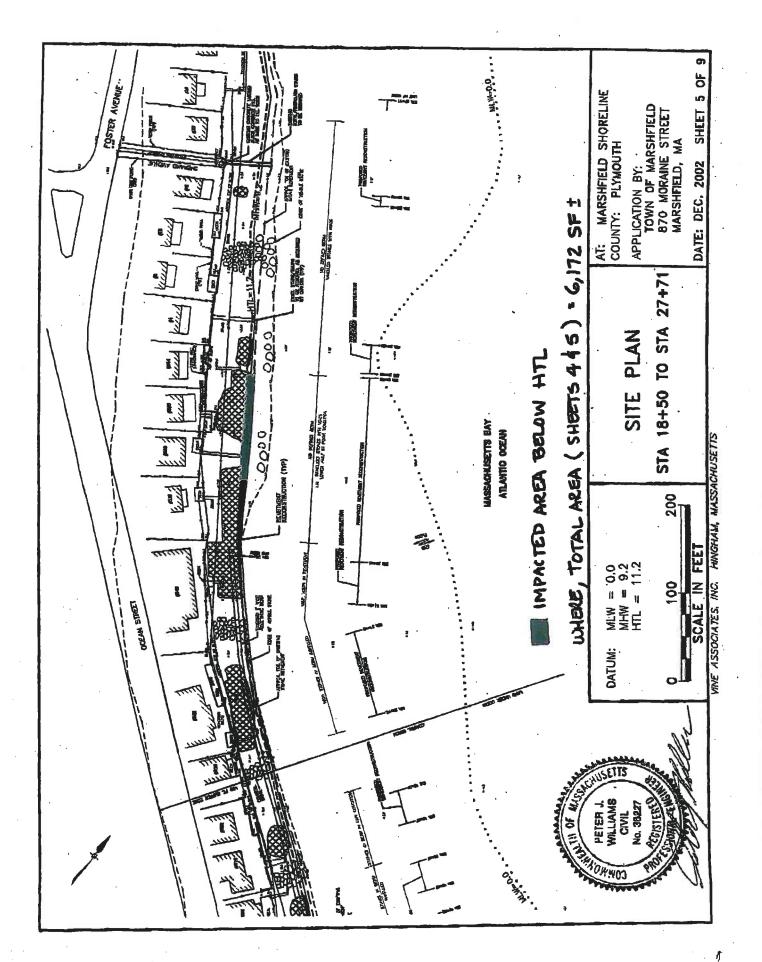


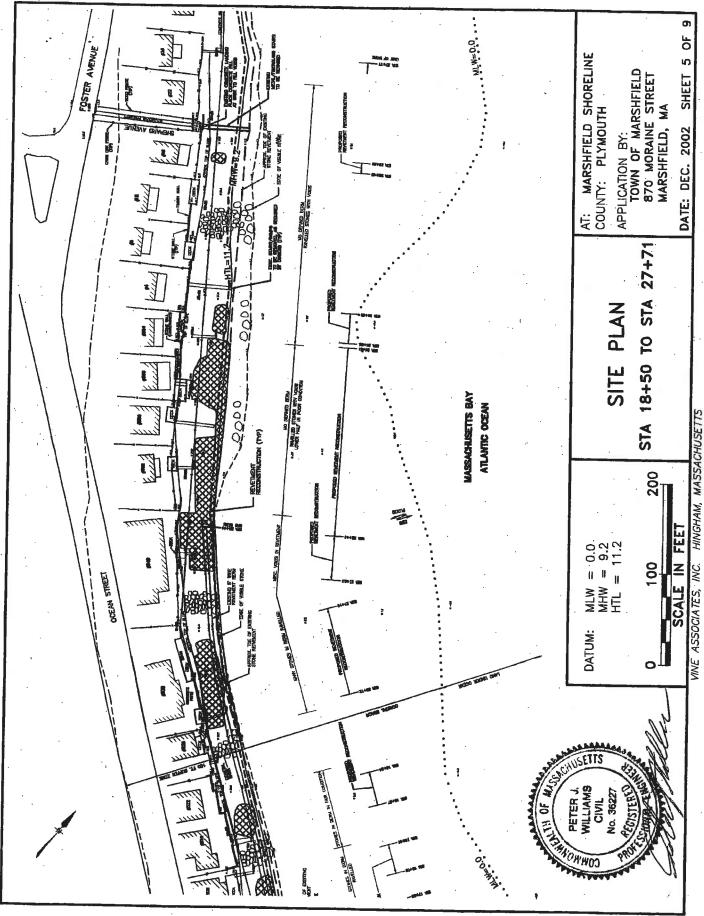


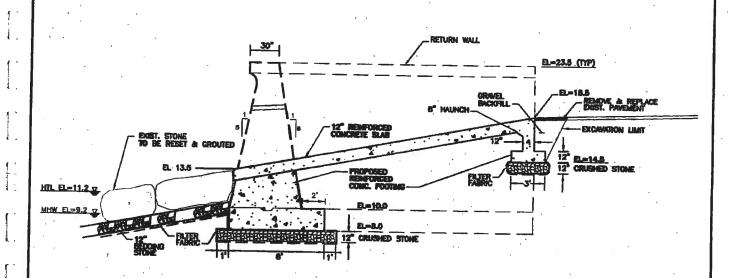


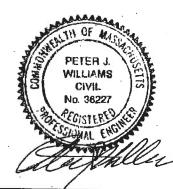












DATUM: MLW = 0.0

MHW = 9.2HTL = 11.2

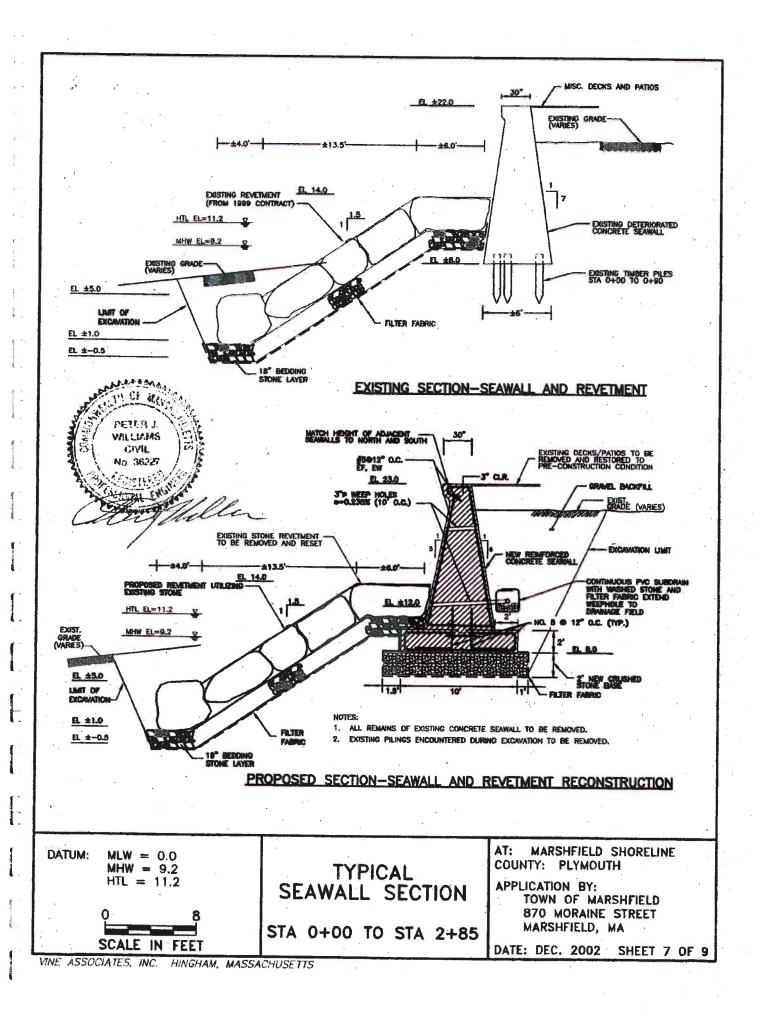
SCALE IN FEET

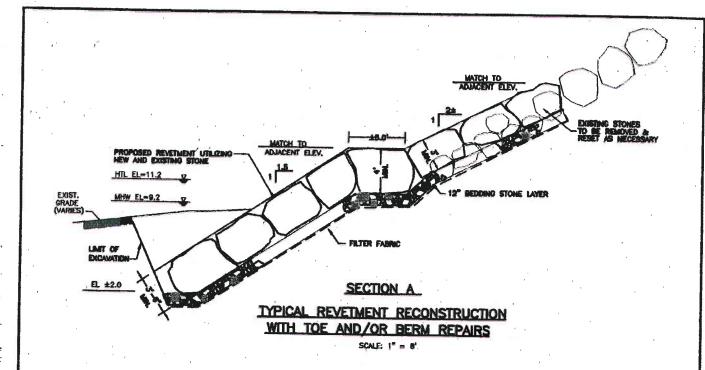
PROPOSED
RAMP RECONSTRUCTION
(TYPICAL)

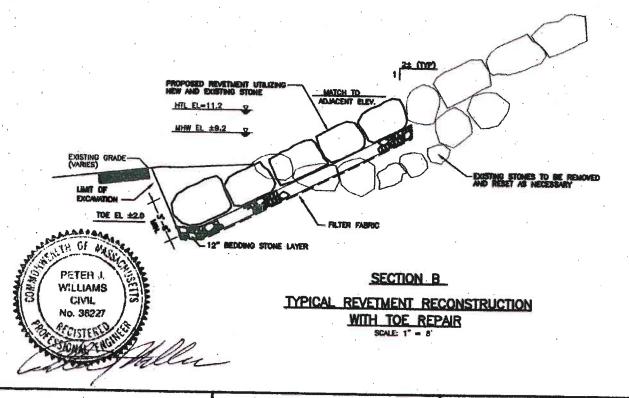
STA 0+00 TO STA 0+25 STA 14+03 TO STA 14+20 AT: MARSHFIELD SHORELINE COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF MARSHFIELD
870 MORAINE STREET
MARSHFIELD, MA

DATE: DEC. 2002 SHEET 6 OF 9







DATUM: MLW = 0.0MHW = 9.2HTL = 11.2



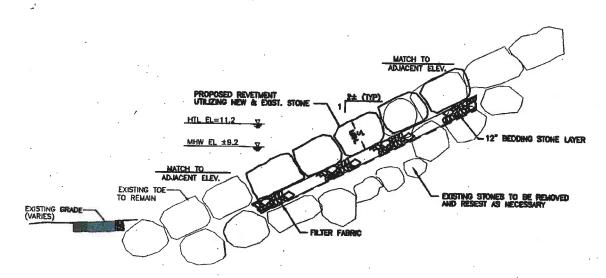
**PROPOSED** REVETMENT RECONSTRUCTION

MARSHFIELD SHORELINE COUNTY: PLYMOUTH

APPLICATION BY: TOWN OF MARSHFIELD

870 MORAINE STREET MARSHFIELD, MA

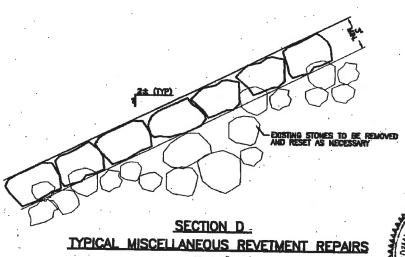
DATE: DEC. 2002 SHEET 8 OF 9



#### SECTION C

## TYPCIAL REVETMENT RECONSTRUCTION

SCALE: 1" - 8"



SCALE: 1" = B"



DATUM: MLW = 0.0MHW = 9.2HTL = 11.2

**PROPOSED** REVETMENT RECONSTRUCTION AND REPAIRS

MARSHFIELD SHORELINE COUNTY: PLYMOUTH

APPLICATION BY: TOWN OF MARSHFIELD 870 MORAINE STREET MARSHFIELD, MA

**DATE: DEC. 2002** SHEET 9 OF 9

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