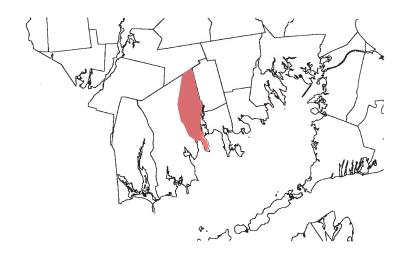
Massachusetts Coastal Infrastructure Inventory and Assessment Project Coastal Hazards Commission

South Coastal

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New Bedford



July 6, 2009

Prepared for:

Massachusetts Department of Conservation and Recreation Hingham, Massachusetts

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Bourne Consulting Engineering

Waterfront Engineers

South Coastal

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Section I

Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

PURPOSE

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS



Massachusetts Coastal Infrastructure Inventory and Assessment Project Coastal Hazards Commission

Section I - Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

The Project and Client

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

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

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

Consultant Team

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

PURPOSE

Study Purpose

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

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

Goals of Study

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

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

Limit of Study

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

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

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

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

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

Database Attributes

Attribute Descriptions/Definitions

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

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

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

CCC-MMM-BBB-PPP-SSS

Where:

CCC DEP Community Number

MMM Community Map Number

BBB Block Number (000 if no block numbering system)

PPP Community Parcel Number

SSS Structure Number

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

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

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS

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

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

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

The cost implications for each rating condition are as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

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EXHIBIT A

Structure Condition Table – 5 Level Rating System

Co	liminary ndition essment	Definition Based Upon Perceived Immediacy of Action and Potential to Cause Damage if Not Corrected	Level of Action Required
A	Excellent	Like new condition. Structure expected to withstand major coastal storm without damage.	None
		Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm	· .
	Cont	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	
Đ	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.	



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EXHIBIT B

Priority Rating System - 5 Level Rating System

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



South Coastal

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CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

EXHIBIT C

REPAIR / REHABILITATION COSTING DATA

September 14, 2006

Cost per linear foot of structure

STRUCTURE TYPE	STRUCTURE MATERIALS	BTRUCTURE	A	8	RUCTURE CONDITION R	VTING D	E
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
	1	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 Feet	\$0	\$251	\$1,254	\$2,508	\$2,772
		Over 15 Feet	\$0	\$343	\$1,716	\$3,432	\$3,795
	STONE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
	4	5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	WOOD	Under 5 Feet	\$0	\$86	\$431	\$862	\$994
		5 To 10 Feet	\$0	\$127	\$632	\$1,265	\$1,463
		10 To 15 Feet	\$0	\$161	\$804	\$1,608	\$1,872
and a subject of the	The second	Over 15 Feet	\$0	\$202	\$1,008	\$2,017	\$2,380
	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
OASTAL BEACH	1	5 To 10 Feet	\$0	\$127	\$634	\$1,267	\$1,267
	l .	10 To 15 Feet	\$0	\$224	\$1,122	\$2,244	\$2,244
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$3,960
	SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
OASTAL DUNE		5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
	The same	10 To 15 Feet	\$0	\$79	\$395	\$790	\$790
AND THE RESERVE OF THE SECOND STATE OF		Over 15 Feet	\$0	\$132	\$660	· \$1,320	\$1,320
EVETMENT	STONE	Under 5 Feet	\$0	\$66	\$333	\$664	\$730
	l .	5 To 10 Feet	\$0	\$120	\$601	\$1,201	\$1,300
	N .	10 To 15 Feet	\$0	\$157	\$781	\$1,564	\$1,696
		Over 15 Feet	\$0	\$247	\$1,234	\$2,468	\$2,666
ROIN	STONE	Under 5 Feet	\$0	\$132	\$664	\$1,328	\$1,460
		5 To 10 Feet	\$0	\$240	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$314	\$1,564	\$3,128	\$3,392
		Over 15 Feet	\$0	\$494	\$2,468	\$4,937	\$5,333

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



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Section II

New Bedford



Section II - Community Findings - City of New Bedford

COMMUNITY DESCRIPTION

The City of New Bedford consists of a land area of 20.14 square miles out of a total area of 24.04 square miles and had a population of 93,768 in the 2000 census. The City is located on the south coast 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 5.7 miles with the remaining shoreline semi-protected by offshore structures or landforms. The City 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 City 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 City of New Bedford, there were 37 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 8 in Section II-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - City of New Bedford

	Total		St	ucture Conditio			
Primary Structure (1)	Structures	Α	В	C	D	F	Total Length
Bulkhead / Seawall	20		13	5	2		16905
Revetment	8		3	4	1		4250
Breakwater							
Groin / Jetty	9	2	4	2	1		4825
Coastal Dune							
Coastal Beach							
	37	2	20	11	4		25980

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 City of New Bedford's case there are a total of 35 structures which would require approximately \$ 17.2 million to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 5.2 million would be required to upgrade the City's coastal protection.

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STRUCTURE REPAIR / RECONSTRUCTION COST - City of New Bedford

	Total		Structure Condition Rating							
Primary Structure (1)	Structures	Α	 В		С		D	 F	Tot	al Cost
Bulkhead / Seawall	20		\$ 2,806,980	\$	7,070,250	\$	2,322,540		\$	12,199,770
Revetment	9		\$ 489,133	\$	636,728	\$	2,222,220		\$	3,348,081
Breakwater									\$	-
Groin / Jetty	8		\$ 420,000	\$	660,660	\$	612,612		\$	1,693,272
Coastal Dune									\$	_
Coastal Beach									\$	-
	37	\$-	\$ 3,716,113	\$	8,367,638	\$	5.157.372	\$ -	\$	17.241.123

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 City of New Bedford the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - City of New Bedford

	Total	-	Str	uct	ure Conditio	n Ra	ating				
Primary Structure (1)	Structures	A	 В		C D		Ď	F		Total Cost	
Town Owned	32		\$ 3,639,949	\$	6,351,998	\$	5,157,372			\$	15,149,319
Commonwealth of Massachusetts	5		\$ 76,164	\$	2,015,640					\$	2,091,804
Federal Government Owned										\$	-
Unknown Ownership										\$	-
	37	\$-	\$ 3,716,113	\$	8.367.638	\$	5.157.372	\$		S	17.241.123

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

SUMMARY

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

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

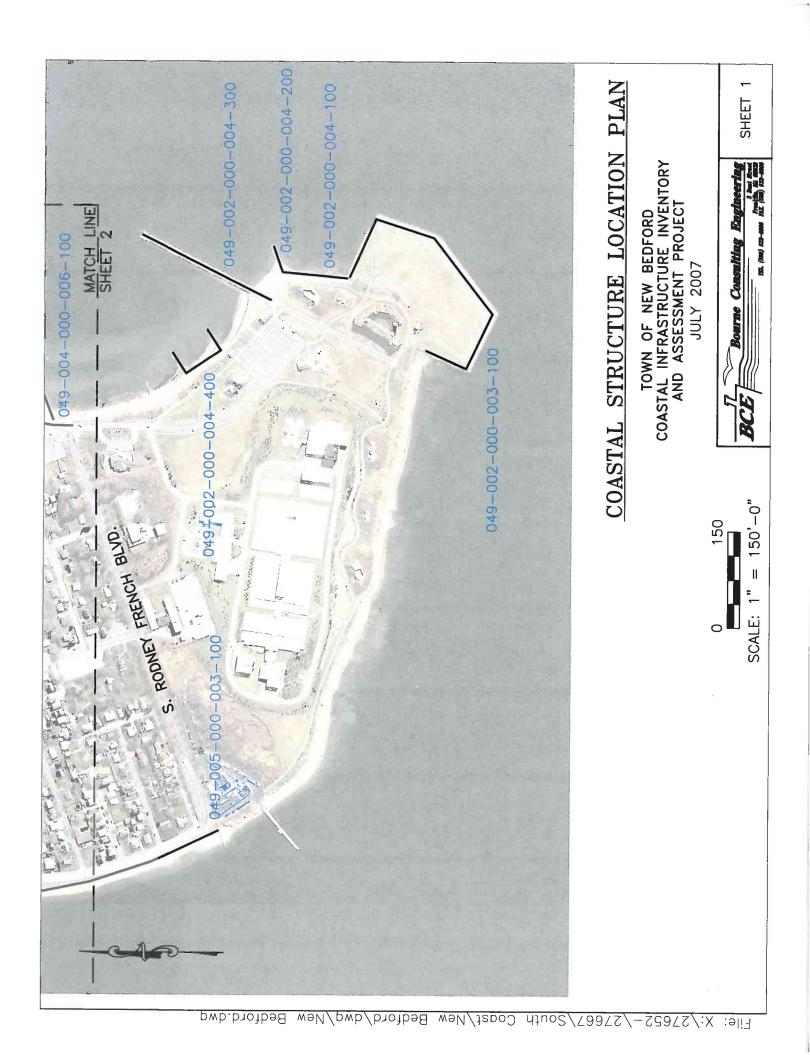
BCE

Section II - New Bedford

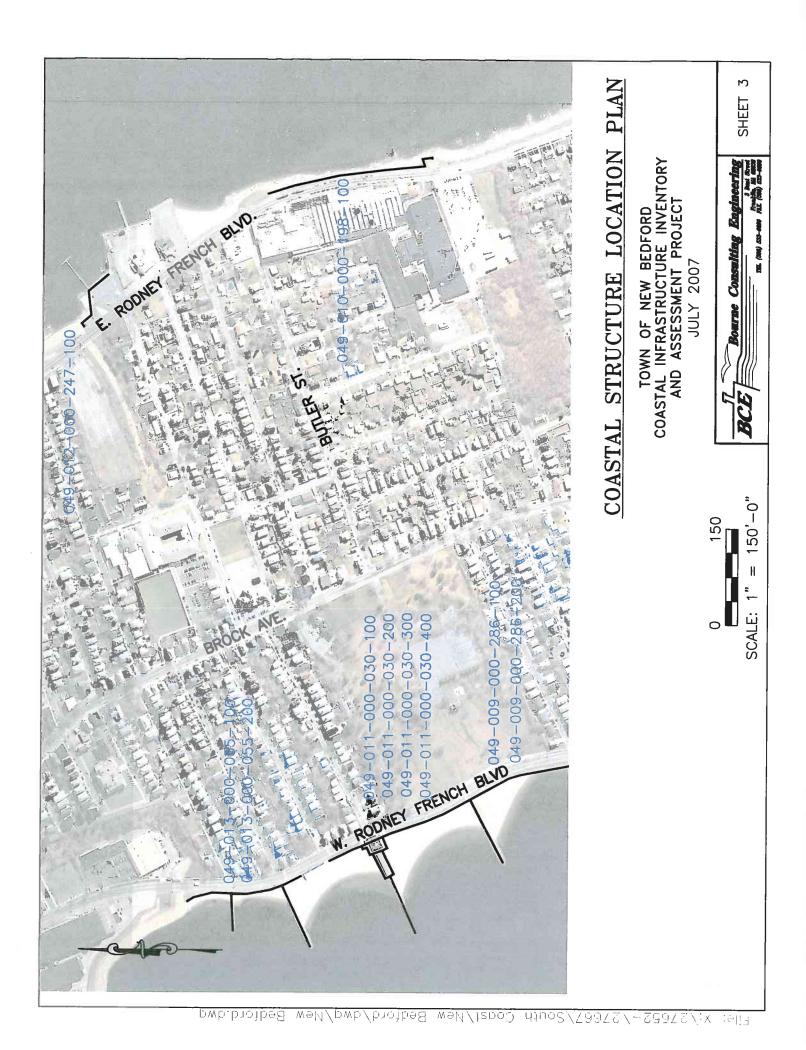
Part B

Structure Assessment Reports











150'-0"

H

SCALE:

150

0

COASTAL STRUCTURE LOCATION PLAN TOWN OF NEW BEDFORD COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT PROJECT JULY 2007

049-025A-000-048-100

MATCH LINE SHEET 5

Bedford.dwg Bedford/dwg/New Codst/New File: X:\27652-\27667\South

Bedford.dwg

Bedford/dwg/New

Codst/New

File: X:\27652-\27667\South

Bedford.dwg

Bedford/dwg/New

well/jsbo0

/<u>57667</u>

-28975/:X

ymos



Selling Engineering and July Serving Market in case and case on the (ma) 533-600

COASTAL STRUCTURE LOCATION PLAN

TOWN OF NEW BEDFORD
COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT PROJECT
JULY 2007

150'-0" 150 II SCALE: 0

049-066-000-165

-000-990-640

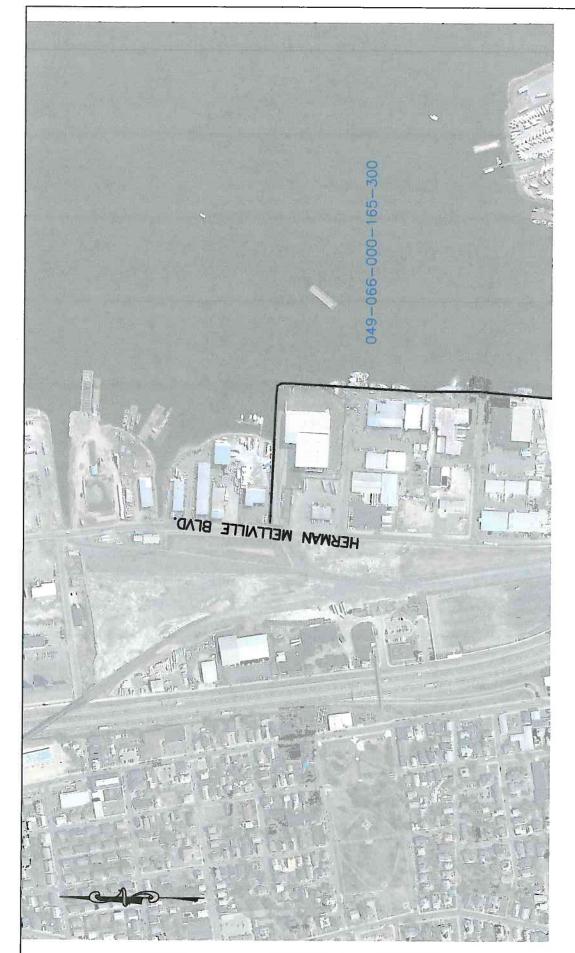
ROUTE



COASTAL STRUCTURE LOCATION PLAN

TOWN OF NEW BEDFORD
COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT PROJECT
JULY 2007





Structure Assessment Form

Town: New Bedford

Structure ID: 049-002-000-003-100

Local		Location	4		Date:	
		Fort Rodm	an			7/19/200
Presumed Structur	re Owner:	Based On (Comment:		·	
Local					<u> </u>	
Owner Name:		, Earliest Str	ucture Record:	Fs	timated Reconstructio	n/Renair Cost
New Bedford		1967	detaile Necora.	Ē	dillacca Reconstraction	\$413,457.00
				1		
ength: Top E	Elevation: FIRM Map	Zone: FIRM Map Ele	vation: 25			
	NAVD 88	Feet N				
rimary Type:)
evetment	Primary Material: Stone	Primary Heigh Over 15 Feet	<u>. </u>			
econdary Type:	Secondary Material		iaht:	*	496	
additionly types	Secondary Placerial	Secondary nei	gir.			
tructure Summan	v :					
Condition Rating Level of Action Description	B Good Minor Structure observed to exhi problems, superficial in na to landform is present. St adequate to provide protec coastal storm with no dam to prevent / limit future det life of structure.	ture. Minor erosion ructure / landform tion from a major age. Actions taken	Priority Rating Action Description	Inshore Struc	t Consideration tures Present with Lim ignificant Infrastructur	
		Structure Docum				
9-002-000-003-1	00-PHO1A.JPG	USACE	May 1969 Prop	osed Seawall	049-002-000-003-1	
ructure Image 9-002-000-003-1 9-002-000-003-1	00-PHO1A.JPG	DEP	May 1969 Proposition July 1967 Plan	Accompanying	049-002-000-003-1	00-LIC1A
9-002-000-003-1	00-PHO1A.JPG	USACE DEP DEP	May 1969 Proposition Plan Plan Plan	Accompanying Accompanying	049-002-000-003-1	00-LIC1A 00-LIC1B
9-002-000-003-1	00-PHO1A.JPG	USACE DEP DEP	May 1969 Proposition Plan Plan Plan	Accompanying	049-002-000-003-1	00-LIC1A 00-LIC1B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-002-000-004-100

Property Owner:		Location:		Date:	4-1	
Local		Fort Rodman	·		8/2/2007	
Presumed Structur	re Owner:	Based On Co	mment:	9		
Local						
Owner Name:		Earliest Struc	ture Record:	Estimated Reconstruction/Repair Cost:		
New Bedford		1992		\$39,640.00		
Length: Top E	levation: FIRM Map Zon	e: FIRM Map Eleva	tion:			
330	V	14	19	Marine.		
Feet Feet N	NAVD 88	Feet NG	SVD .	200		
Primary Type:	Primary Material:	Primary Height:				
Revetment	Stone	5 to 10 Feet				
Secondary Type:	Secondary Material:	Secondary Heigh	nt:			
					6	
Structure Summan	v:					
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit v problems, superficial in nature to landform is present. Struct adequate to provide protection coastal storm with no damage to prevent / limit future deterior life of structure.	Minor erosion ure / landform from a major Actions taken	Priority Rating Action Description	None Long Term Planning Considerations No Inshore Structures or Residentia Units Present		
structure Image		tructure Docume				
949-002-000-004-1	00-PHO1A.JPG	DEP N	larch 1992 Plan	Accompanying 049-002-000-004-10	00-LIC1A	
			,			

Structure Assessment Form

Town: New Bedford
Structure ID: 049-002-000-004-200

Property Owner:		Locatio	n:		Date:
Local		Fort Rod	man		8/2/2007
Presumed Structure	e Owner:	Based Or	Comment:		•
Local					
Owner Name:		Earliest S	Structure Record:	E	stimated Reconstruction/Repair Cost:
New Bedford		1958		- Γ	\$300,250.00
Length: Top E	levation: FIRM Map 2	Zone: FIRM Map E	levation:		
250		V14	19		
Feet Feet N	AVD 88	Feet	t NGVD		
Primary Type:	Primary Material:	Primary Heig			
Groin/ Jetty	Stone	5 to 10 Feet			
Secondary Type:	Secondary Material:	Secondary H	leight:	S.L. St.	
Structure Summary		bish 🕶 ·			
not placed tightly a	groin is submerged at mean and there are signs of stone r	nign water. The sto novement.	nes are approxim	lately 4 feet by 2 feet b	by 3 feet in size. The stones were
					The state of the s
Condition	С		Priority	I	
Rating	Fair		Rating	None	
Level of Action Description	Moderate Structure is sound but may		Action		Planning Considerations Structures or Residential Dwelling
	deterioration, section loss, undermining, and/or scour. to withstand major coastal smoderate damage. Actions structure to provide full prot coastal storm and for exten structure. Moderate wind o landform exists. Landform to fully protect shoreline dure storm. Actions taken to promaterial for full protection a	Structure adequate storm with little to taken to reinforce ection from major ding life of r wave damage to nay not be sufficienting a major coastal vide addition	Descript	Units Presen	nt .
Structure Image	es:	Structure Docui	ments:		
049-002-000-004-2		MA-DCR	September 1	Proposed Shore	049-002-000-004-200-DCR2A
		DEP	March 1992	Plan Accompanying	049-002-000-004-200-LIC2A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-002-000-004-300

Property Owner:		Location:			Date:	
Local		Merchant N	Mariner Memorial	Walkway		8/2/2007
Presumed Structure	e Owner:	Based On C	Comment:			
Local						
Owner Name:		* Earliest Str	ucture Record:	Es	timated Reconstructi	on/Repair Cost:
New Bedford		1955				\$0.00
<u> </u>	levation: FIRM Map Zon	e: FIRM Map Elev	vation:		N	
740 Feet N	IAVD 88	Feet N	IGVD			
Primary Type:	Primary Material:			lines.		
Groin/ Jetty	Stone	Primary Height 10 to 15 Feet				
Secondary Type:	Secondary Material:	Secondary Hei	aht:			
			9.14	Total Up		XX
Structure Summary	/:	·				
The stone blocks h	ave a cast in place walkway on stone movement.	top of them. The w	alkway is approxir	mately 15 feet high.	The stones are well s	set. There is
Condition	Α		Priority	1		
Rating	Excellent		Rating	None		
Level of Action	None Like new condition. Structure e		Action		anning Consideration	
Description	withstand major coastal storm Stable landform (beach, dune Adequate system exists to pro from major coastal storm.	without damage. or bank).	Description	Units Present	tructures or Resident	iai Dweiling
tructure Image		tructure Docum				
49-002-000-004-3				ity of New Bedford,	049-002-000-004-	
49-002-000-004-30				roposed Hurricane	049-002-000-004-	
	lv	MA-DCR	June 1956 P	roposed Hurricane	049-002-000-004-	300-DCR3B
		,				

Structure Assessment Form

Town: New Bedford

Structure ID: 049-002-000-004-400

Property Owner:		Locatio	on:		Date:		
Local		Fort Roo	dman		8/2/2007		
Presumed Structure	e Owner:	Based O	n Comment:		<i>'</i>		
Local							
Owner Name:		e Earliest :	Structure Record:	F	stimated Reconstruction/Repair Cost:		
New Bedford		1956	Structure Record.		\$612,612.00		
				,			
Length: Top E	levation: FIRM Map	Zone: FIRM Map I	Elevation:				
ļ.	IAVD 88		et NGVD				
Primary Type:	Primary Material:	Primary Hei		Dean	And the second		
Groin/ Jetty	Stone	5 to 10 Fee	The second of th				
Secondary Type:	Secondary Material	Secondary I	Height:				
Structure Summan					7600		
	ed stone groins have stones re are signs of stone moven			t by 3 feet in size. The	re are also pieces of concrete and		
granice block. The	ic are signs of storic moven	icht and Section 1033.	•				
Condition	D		Priority	l l			
Rating	Poor		Rating	None	None Long Term Planning Considerations No Inshore Structures or Residential Dwelling		
Level of Action	Major Structure exhibits advance	d lovele of	Action				
Description	deterioration, section loss, undermining, and/or scour strong risk of significant da failure during a major coas	cracking, spalling, . Structure has amage and possible	Descripti	Units Presen			
	should be monitored until repairs/reconstruction can taken to reconstruct struct	ure to regain full					
	capacity to resist a major of Landform eroded, stability						
	Landform not adequate to during major coastal storm	provide protection					
	recreate landform to adequ	uate limits for full					
	protection from a major co	astai storm.					
PERFECT OF THE PROPERTY OF THE PERFECT OF THE PERFE							
Structure Image	20'	Structure Docu	ımente				
049-002-000-004-4		MA-DCR	June 1956	Proposed Hurricane	049-002-000-004-400-DCR4A		
		MA-DCR	January 195	Proposed Shore	049-002-000-004-400-DCR4B		
		•	1		1		
					,		
			,				

Structure Assessment Form

Town: New Bedford

Structure ID: 049-004-000-002-100

ion: FIRM Map Zone 88 Primary Material: Concrete Secondary Material:	Based On Cor Earliest Struct 1958 E: FIRM Map Elevat	ure Record:		Date:	7/19/2007 on/Repair Cost: \$92,928.00
ion: FIRM Map Zone 88 Primary Material: Concrete	Earliest Struct 1958 E: FIRM Map Elevat Feet NGV	ure Record:	Esti	mated Reconstructio	
88 Primary Material: Concrete	1958 e: FIRM Map Elevat Feet NG Primary Height:	on: 17	Esti	mated Reconstructio	
88 Primary Material: Concrete	1958 e: FIRM Map Elevat Feet NG Primary Height:	on: 17	Esti	mated Reconstructio	
88 Primary Material: Concrete	Firmary Height:	17			
88 Primary Material: Concrete	Feet NG\ Primary Height:	17			
88 Primary Material: Concrete	Feet NG Primary Height:				
Primary Material: Concrete	Primary Height:	/D			
Concrete					
•	II Inder 5 Feet		mallocal Dis	de partir de	
Secondary Material:	Jonaci S rect				
	Secondary Height	<u>:</u>	Talking I.		Till the state of
d	1				
or ucture observed to exhibit verblems, superficial in nature. andform is present. Structure equate to provide protection istal storm with no damage. irevent / limit future deteriors	Minor erosion ire / landform from a major Actions taken	Rating Action Description	Low Priority Future Project (Inshore Structu	res Present with Lim	
			oposed Shore	049-004-000-002-1	00-DCR1A
<u>-</u>					
n noile eap	pood nor nucture observed to exhibit very oblems, superficial in nature. landform is present. Structure equate to provide protection astal storm with no damage. prevent / limit future deteriors of structure.	Structure Document Structure observed to exhibit very minor oblems, superficial in nature. Minor erosion landform is present. Structure / landform equate to provide protection from a major astal storm with no damage. Actions taken prevent / limit future deterioration and extender of structure.	Priority Rating Action Description Description	Priority II Rating Low Priority Action Future Project of Description Inshore Structure oblems, superficial in nature. Minor erosion landform is present. Structure / landform equate to provide protection from a major astal storm with no damage. Actions taken prevent / limit future deterioration and extender of structure. Structure Documents: PHO1A.JPG MA-DCR January 195 Proposed Shore	Priority II Rating Low Priority nor Action Future Project Consideration nucture observed to exhibit very minor poblems, superficial in nature. Minor erosion landform is present. Structure / landform equate to provide protection from a major astal storm with no damage. Actions taken prevent / limit future deterioration and extend of structure. Structure Documents: Structure Documents: PHO1A.JPG MA-DCR January 195 Proposed Shore 049-004-000-002-18

Structure Assessment Form

Town: New Bedford

Structure ID: 049-004-000-002-200

Property Owner:			Location:			Date:	
Local			East Rodney	French Boulevard			7/19/2007
Presumed Structur	e Owner:		Based On Co	mment:		•	
Local							
Owner Name:			Earliest Struc	ture Record:	Estima	ited Reconstructi	ion/Repair Cost
New Bedford			Unkown				\$180,576.00
Length: Top E	levation: F	IRM Map Zone:	FIRM Map Eleva	tion:			
720		V14		17			
Feet Feet N	NAVD 88		Feet NG	VD			
Primary Type:	Primary N	Material:	Primary Height:				
Bulkhead/ Seawall	Stone		10 to 15 Feet	_	14		
Secondary Type:	Secondary	/ Material:	Secondary Heigh	it:			- 1
				_		A MARKET	1
Structure Summary					? feet. They are morta	ewing kane bearing the literal of	The same of the sa
Condition Rating Level of Action Description	B Good Minor Structure observe problems, superfit to landform is pre adequate to provi coastal storm with to prevent / limit f life of structure.	icial in nature. Mesent. Structure ide protection from hood amage. A	linor erosion e / landform om a major actions taken	Priority Rating Action Description	II Low Priority Future Project Co Inshore Structures potential for Signi	s Present with Li	
Structure Image 049-004-000-002-2		Stro	ucture Documer	nts:			

Structure Assessment Form

Town: New Bedford

Structure ID: 049-004-000-002-300

Property Owner:		Location:		Date	::
Local		East Rodney	French Boulevard		7/19/2007
Presumed Structure	e Owner:	Based On Con	nment:	,	
Local	22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2			1.00-1.00-1.0	25 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -
Owner Name:		Earliest Struct	ure Record:	Estimated Reconst	ruction/Repair Cost:
New Bedford	·	1958			\$60,000.00
250 Feet N	levation: FIRM Map Zone: V14 AVD 88	FIRM Map Elevat	19		
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty Secondary Type:	Stone Secondary Material:	5 to 10 Feet Secondary Height	t:		
Structure Summary The dumped stone	groin has a slope of 1 on 2. There	is minor stone mo	vement and sottling	There is no visible sour	
The damped stone	growinas a slope of 1 off 2. There	is millor stone mo	vernent and setting	. Triere is no visible scour.	
Condition Rating	B Good		Priority	II Low Priority	
Level of Action	Minor		Rating Action	Future Project Consideration	
Description	Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	inor erosion / landform m a major ctions taken	Description	Inshore Structures Present wi potential for Significant Infrast	
Structure Image	s: Stri	ucture Documen	ıtc:		
049-004-000-002-3			ctober 195 Propo	osed Groin and 049-004-000-	002-300-COE3A
	,		1		

Structure Assessment Form

Town: New Bedford

Structure ID: 049-004-000-006-100

		Location	1:		Date:	
Local		East Rodr	ney French Boule	vard		7/19/2007
Presumed Structure	e Owner:	Based On	Comment:		,	
Local			· · · · · · · · · · · · · · · · · · ·			
Owner Name:		, Earliest St	ructure Record:	Est	imated Reconstruction	n/Repair Cost:
New Bedford		1958				\$72,000.00
	levation: FIRM Map		evation:			
300		V14	19	The same of		
Feet Feet N	NAVD 88	Feet	NGVD			
Primary Type:	Primary Material:	Primary Heigh	nt:			
Groin/ Jetty	Stone	5 to 10 Feet				
Secondary Type:	Secondary Material:	Secondary He	eight:	ので 上土土 #		
	1			TON THE ME		
tructure Summary						
scour or stone mov	groin has stones that are app vement.	TOAITILECTY 4 TEEL BY 2	reet by 3 reet iii	size. The dest is one s	tone wide. There is in	o sigil oi
Condition	В		Priority	II		
Rating	Good		Rating	Low Priority		
Level of Action	Minor Structure observed to exhit		Action	-	Consideration ures Present with Lim	
Description				motorial for C	gnificant Infrastructure	e Damane
Description	problems, superficial in nat to landform is present. Str adequate to provide protec coastal storm with no dama to prevent / limit future dete life of structure.	ructure / landform tion from a major age. Actions taken		potential for S		o Damage
	problems, superficial in nat to landform is present. Stradequate to provide protect coastal storm with no dama to prevent / limit future detellife of structure.	ructure / landform tion from a major age. Actions taken erioration and extend	nents:	potential for S		. Damege
tructure Image	problems, superficial in nat to landform is present. Stradequate to provide protect coastal storm with no dama to prevent / limit future detelife of structure.	ructure / landform tion from a major age. Actions taken				
tructure Image	problems, superficial in nat to landform is present. Stradequate to provide protect coastal storm with no dama to prevent / limit future detelife of structure.	ructure / landform tion from a major age. Actions taken erioration and extend Structure Docum		Proposed Shore Proposed Shore	049-004-000-006-10	00-COE1A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-005-000-003-100

Base Earli 1950 IRM Map Zone: FIRM M V14 Material: Primary 5 to 10 Material: Seconda es that are approximately 4	Map Elevation: 18 Feet NGVD y Height: D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. Be Priority Rating Action ng. Description	Estimated Reconstruction/Repair Cost: \$2,222,220.00 The stones are at a 1 on 1 slope. There are oardwalk, road, and houses are located behind the lill Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
Earling 1956 IRM Map Zone: FIRM M V14 Material: Primary 5 to 10 Material: Secondar es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possible ajor coastal storm. Structure	diest Structure Record: 56 Map Elevation: 18 Feet NGVD y Height: 0 Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. Be Priority Rating Action ng. Description	\$2,222,220.00 The stones are at a 1 on 1 slope. There are coardwalk, road, and houses are located behind the lill Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
IRM Map Zone: FIRM M V14 Alaterial: Primary 5 to 10 Material: Seconda es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possib ajor coastal storm. Structure	Map Elevation: 18 Feet NGVD y Height: 0 Feet dary Height: 4 feet by 3 feet by 2 feet in size accour at the toe of the slope. By Priority Rating Action ng. Description	\$2,222,220.00 The stones are at a 1 on 1 slope. There are coardwalk, road, and houses are located behind the lill Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
IRM Map Zone: FIRM M V14 Alaterial: Primary 5 to 10 Material: Seconda es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possib ajor coastal storm. Structure	Map Elevation: 18 Feet NGVD y Height: 0 Feet dary Height: 4 feet by 3 feet by 2 feet in size accour at the toe of the slope. By Priority Rating Action ng. Description	\$2,222,220.00 The stones are at a 1 on 1 slope. There are coardwalk, road, and houses are located behind the lill Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
IRM Map Zone: FIRM M V14 Alaterial: Primary 5 to 10 Material: Seconda es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possib ajor coastal storm. Structure	Map Elevation: 18 Feet NGVD y Height: 0 Feet dary Height: 4 feet by 3 feet by 2 feet in size accour at the toe of the slope. By Priority Rating Action ng. Description	\$2,222,220.00 The stones are at a 1 on 1 slope. There are coardwalk, road, and houses are located behind the lill Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
V14 Alaterial: Primary 5 to 10 Material: Seconda es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possible ajor coastal storm. Structure.	Feet NGVD y Height: D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. Be Priority Rating Action ng. Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
V14 Alaterial: Primary 5 to 10 Material: Seconda es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has inficant damage and possible ajor coastal storm. Structure.	Feet NGVD y Height: D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. Be Priority Rating Action ng. Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
material: Secondates that are approximately disible erosion and minor so that are approximately displayed and minor so that are a	y Height: D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. Be Priority Rating Action Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
material: Secondates that are approximately disible erosion and minor so that are approximately displayed and minor so that are a	D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. By Priority Rating Action ng, Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
Material: Secondary es that are approximately disible erosion and minor so that are approximately display that are approximately dis	D Feet dary Height: 4 feet by 3 feet by 2 feet in size scour at the toe of the slope. By Priority Rating Action ng, Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has nificant damage and possibajor coastal storm. Structure	4 feet by 3 feet by 2 feet in size accour at the toe of the slope. By Priority Rating Action Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
es that are approximately 4 isible erosion and minor so advanced levels of tion loss, cracking, spalling for scour. Structure has nificant damage and possibajor coastal storm. Structure	4 feet by 3 feet by 2 feet in size accour at the toe of the slope. By Priority Rating Action Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
isible erosion and minor so advanced levels of tion loss, cracking, spalling lor scour. Structure has nificant damage and possib ajor coastal storm. Structu	Priority Rating Action Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
isible erosion and minor so advanced levels of tion loss, cracking, spalling lor scour. Structure has nificant damage and possib ajor coastal storm. Structu	Priority Rating Action Description	oardwalk, road, and houses are located behind the III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
tion loss, cracking, spalling l/or scour. Structure has nificant damage and possib ajor coastal storm. Structu	ng, Description	Listing Inshore Structures with potential for Infrastructure Damage and/or Limited
tion loss, cracking, spalling l/or scour. Structure has nificant damage and possib ajor coastal storm. Structu	The second process	Inshore Structures with potential for Infrastructure Damage and/or Limited
ction can be initiated. Action act structure to regain full a major coastal storm. , stability threatened. equate to provide protection	ture ions on to	Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure De	Documents:	
MA-DCR	August 1956 Propos	sed Hurricane 049-005-000-003-100-DCR1A
MA-DCR	November 1 Propos	sed Sand Fill - 049-005-000-003-100-DCR1B
	equate to provide protectic stal storm. Actions taken to adequate limits for ful major coastal storm. Structure [MA-DCR	Structure Documents: MA-DCR Actions taken to adequate limits for full major coastal storm.

Structure Assessment Form

Town: New Bedford

Structure ID: 049-006-000-002-100

Property Owner:		Location:			Date:
Local		East Rodney I	rench Boulevard		7/19/2007
Presumed Structur	e Owner:	Based On Con	nment:		ii.
Local					
" Owner Name:		Earliest Struct	ure Record:	Estimated	Reconstruction/Repair Cost:
New Bedford		Unkown	are record.	Listinated	\$540,450.00
450	Ievation: FIRM Map Zone: V14 IAVD 88 Primary Material: Stone Secondary Material:	FIRM Map Elevation Feet NGV Primary Height: 5 to 10 Feet Secondary Height	19 /D		
	e groins with moderate voids and see	ction loss, but no vi	sible scour. The s	tones are approximately 4	feet by 2 feet by 2 feet in
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Consider	eration
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structut to withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a not storm. Actions taken to provide admaterial for full protection and external storms.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	Inshore Structures Pre potential for Significan	esent with Limited It Infrastructure Damage
Structure Image 049-006-000-002-1		cture Documen	ts:		

Structure Assessment Form

Town: New Bedford

Structure ID: 049-007-000-112-100

Secondary Type: Secondary Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope again throughout. Condition B Rating Good Level of Action Description Structure obserproblems, superto landform is padequate to proceed to proceed the process of t	Based	Rodney French Boulev d On Comment: est Structure Record:	MIT		7/19/2007
Owner Name: MA-DCR Length: Top Elevation: 300 Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, super to landform is padequate to processal storm with the proposed in the propos	Earlie	st Structure Record:	Es		
Owner Name: MA-DCR Length: Top Elevation: 300 Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, super to landform is good adequate to proceed to prevent / limit	The same same same same same same same sam		Es		
MA-DCR Length: Top Elevation: 300 Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, super to landform is padequate to processal storm with the proposed in the	The same same same same same same same sam		Es		
MA-DCR Length: Top Elevation: 300 Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, super to landform is padequate to processal storm with the proposed in the proposed in the process of the proposed in the process of th	The same same same same same same same sam		L-S	stimated Reconstruction/Rep	nair Castı
Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Seco	<u> </u>				6,036.00
Feet Feet NAVD 88 Primary Type: Primary Revetment Stone Secondary Type: Seco			J		- All Pagerana
Primary Type: Primary Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, super to landform is padequate to processal storm with the prevent / limit		p Elevation:			
Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agathroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, superto landform is padequate to procoastal storm with prevent / limit	V14	18			
Revetment Stone Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope agasthroughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, superto landform is padequate to proceed adequate to proceed and the proposed of the process o		Feet NGVD			
Secondary Type: Secondary Type: Secondary Structure Summary: Placed riprap at a 1 on 1 slope aga throughout. Condition B Rating Good Level of Action Description Structure obserproblems, superto landform is padequate to procoastal storm with prevent / limit	y Material: Primary I 5 to 10 F		760		
Structure Summary : Placed riprap at a 1 on 1 slope aga throughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, superto landform is padequate to processal storm with prevent / limit					
Placed riprap at a 1 on 1 slope aga throughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, superto landform is padequate to procoastal storm with prevent / limit	ary Material: Secondar	ry Height:			
Placed riprap at a 1 on 1 slope aga throughout. Condition B Rating Good Level of Action Minor Description Structure obserproblems, superto landform is padequate to procoastal storm with prevent / limit	4		1		
Condition B Rating Good Level of Action Minor Description Structure obset problems, super to landform is padequate to proceed to pro	inst a boat ramp. There is min	nor stone movement a	and visible scour. The	stones are placed tightly	
Rating Good Level of Action Minor Description Structure obset problems, super to landform is padequate to proceed to proceed a storm with the property of the provent / limits of the process of the pro		Tot otone movement a	TIC VISIONE SCOUL. THE	scores are placed agrilly	
Level of Action Description Structure observed to landform is part adequate to proceed to provide the process of the process		Priority	II		
Description Structure observed problems, superto landform is particular adequate to proceed to proceed a storm with the prevent / limit		Rating	Low Priority		
problems, supe to landform is p adequate to pro coastal storm v to prevent / limi		Action	Future Project	ct Consideration	
	rved to exhibit very minor erficial in nature. Minor erosion present. Structure / landform ovide protection from a major with no damage. Actions taken it future deterioration and exte	n		tures Present with Limited Significant Infrastructure Da	mage
Structure Images:	Structure Do	cuments:			
049-007-000-112-100-PHO1A.JPG	USACE		Proposed Boat	049-007-000-112-100-C0	
	USACE		Proposed Shore	049-007-000-112-100-C	OE1B
	MA-DCR		Proposed Boat	049-007-000-112-100-D0	
	MA-DCR	November 1	Proposed Sand Fill -	049-007-000-112-100-D0	CR1B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-007-000-112-200

State Presumed Structure State		Location	า:		Date:	
		West Roo	lney French Boul	evard		7/19/2007
State	Owner:	Based On	Comment:		in .	
√ .						
Owner Name:		Earliest St	ructure Record:	- <u>-</u>	stimated Reconstructi	on/Repair Cost: \$20,064.00
		1230,				\$20,007.00
	evation: FIRM Map Z	4800.00				
80	AVD 00	V14	18			
Feet Feet N/			NGVD		The same of the	
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Heig 10 to 15 Fee		(- 11	
	,i	•		ALEXA T		
Secondary Type:	Secondary Material:	Secondary He	eight:	A CONTRACTOR		
Christina Comme		1		manage sin s	AND THE STREET, STREET	
Structure Summary The stone block sea	: wall is mortared. The stone	s average 2 feet by 1	.5 feet by 2 feet	in size. The corners a	re beginning to uprave	el and there is
some settling.	The stories		rece by 2 rece	Jizc. The Comers a	ic beginning to unitavi	and diele is
	В					
Condition	B Good		Priority	II Lava Britanita		
Rating Level of Action	Minor		Rating	Low Priority	ct Consideration	
	Structure observed to exhibit	t very minor	Action Descripti		ctures Present with Li	mited
	problems, superficial in natu to landform is present. Stru adequate to provide protecti coastal storm with no dama; to prevent / limit future deter life of structure.	icture / landform on from a major ge. Actions taken	•	potential for	Significant Infrastructu	ıre Damage
		Structure Docum				
		USACE	September 1	Proposed Boat	049-007-000-112-2	
		USACE	September 1 April 1977	Proposed Shore	049-007-000-112-2	200-COE2B
tructure Images 49-007-000-112-20		USACE	September 1 April 1977 July 1957			200-COE2B 200-DCR2A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-007-000-112-300

		Location:			Date:	
State		West Rodn	ey French Boulev	ard		7/19/2007
Presumed Structur	e Owner:	Based On C	Comment:		•	
State					<u> </u>	
Owner Name		j Sadiant Sta		_		
Owner Name: MA-DCR		1956	ucture Record:	Es	timated Reconstruct	\$180,180.00
	Marketing and appropriate the second of the	11350		<u> </u>		\$100,100.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elev	ation:			
300	V14	1	18			
Feet Feet N	NAVD 88	Feet N	IGVD			
Primary Type:	Primary Material:	Primary Height	:			
Revetment	Stone	5 to 10 Feet				
Secondary Type:	Secondary Material:	Secondary Hei	ght:			
				Mark Mark		234
Structure Summan	y:					
Placed stone revet	ment is at a 1 on 1 slope. The sto	ones are approxim	ately 4 feet by 3	feet in size. There are	e areas of erosion an	nd stone
movement. The c	rest is one stone length wide.					
Condition	С		Dutunter	II		
Conailion Rating	Fair		Priority	Low Priority		
Level of Action	Moderate		Rating Action	•	t Consideration	
Description	Structure is sound but may exhil	oit minor	Description		tures Present with Li	imited
*	deterioration, section loss, crack			potential for S	ignificant Infrastruct	ure Damage
	undermining, and/or scour. Structo withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or way landform exists. Landform may refully protect shoreline during a storm. Actions taken to provide a material for full protection and extending and continuous	with little to n to reinforce n from major life of ve damage to not be sufficient a major coastal addition				
Structure Image 149-007-000-112-3	to withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or way landform exists. Landform may refully protect shoreline during a storm. Actions taken to provide a material for full protection and extending full protection and extending for full protection and extending full protection and extendi	with little to n to reinforce n from major life of ve damage to not be sufficient a major coastal addition stended life. FUNCTURE DOCUM	September 1 April 1977	Proposed Boat Proposed Shore Proposed Hurricane	049-007-000-112- 049-007-000-112- 049-007-000-112-	-300-COE3B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-007-000-112-400

		Location	n:		Date:	
State		West Roo	dney French Boulevard			7/19/2007
Presumed Structur	re Owner:	Based On	Comment:			
State						41.
Owner Name:		 Earliest S	tructure Record:	Es	timated Reconstruc	tion/Renair Cost
MA-DCR		1956				\$20,064.00
	Elevation: FIRM Map Zo					
80		V14	18			
	NAVD 88	Feet	NGVD			
Primary Type: Bulkhead/ Seawall	Primary Material:	Primary Heig				
		10 to 15 Fee			15.00 180.00	
Secondary Type:	Secondary Material:	Secondary H	eight:			
Churchino Comme	1	a a				
Structure Summary The stone block se	y : eawall is mortared. The stones	average 2 feet by 1	L5 feet by 2 feet in size	The corners are	heginning to upra	vel and there is
some stone settling	g.	avoluge 2 rect by 1	is rect by 2 reet in size.	. The corners are	e beginning to unita	vei and there is
	_					
Condition Rating	B Good		Priority	 		
Level of Action	Minor		Rating Action	Low Priority Future Project	t Consideration	
Description	Structure observed to exhibit	very minor	Description		ures Present with L	imited
	problems, superficial in natur to landform is present. Struct adequate to provide protectic coastal storm with no damag to prevent / limit future deterible of structure.	cture / landform n from a major e. Actions taken		potential for 3	ignificant Infrastruc	ture Damage
		Structure Docur	ments:			
		Structure Docur		osed Hurricane	049-007-000-112	-400-DCR4A
Structure Image 049-007-000-112-4	00-PHO4A.JPG		August 1956 Propo	osed Hurricane osed Sand Fill -	049-007-000-112	
	00-PHO4A.JPG	MA-DCR	August 1956 Propo			
	00-PHO4A.JPG	MA-DCR	August 1956 Propo			
	00-PHO4A.JPG	MA-DCR	August 1956 Propo			
	00-PHO4A.JPG	MA-DCR	August 1956 Propo			
	00-PHO4A.JPG	MA-DCR	August 1956 Propo			

Structure Assessment Form

Town: New Bedford

Structure ID: 049-009-000-286-100

roperty Owner:		Location:		Date	2:
ocal		West Rodn	ey French Boulevard		7/19/2007
resumed Structur	e Owner:	Based On C	Comment:		
.ocal					
Owner Name:		r Earliest Str	ucture Record:	Estimated Reconst	truction/Repair Cost:
New Bedford		1977	actar o records	Estimated Necons	\$542,322.00
ength: Top E	Elevation: FIRM Map 2	Zone: FIRM Map Elev	vation:		4 ,4,1
2490		V14	18		
Feet Feet N	NAVD 88	Feet N	IGVD		
rimary Type:	Primary Material:	Primary Height	:	一种	
ulkhead/ Seawall	Concrete	5 to 10 Feet			
econdary Type:	Secondary Material:	Secondary Hei	ght:	NO STATE	
Revetment	Stone	Under 5 Feet	-		F.
tructure Summary	v :	-			
Condition Pating evel of Action Description	B Good Minor Structure observed to exhib problems, superficial in nati to landform is present. Str adequate to provide protect coastal storm with no dama to prevent / limit future dete life of structure.	ure. Minor erosion ucture / landform ion from a major ge. Actions taken	Priority Rating Action Description	III Moderate Priority Consider for Active Project In Listing Inshore Structures with poten Infrastructure Damage and/or Residential Dwellings (<1 dw 100 feet of shoreline)	tial for r Limited
ructure Image		Structure Docum		240,000,000	
49-009-000-286-1					-286-100-COE1A
9-009-000-286-1		MA-DCR	November 1 Propo	osed Sand Fill - 049-009-000-	-286-100-DCR1A
49-009-000-286-1	OU-PHOTO.JPG				

Structure Assessment Form

Town: New Bedford
Structure ID: 049-009-000-286-200

Local			Location:				Date:	
1			West Rodn	ey French Boul	evard			19/2007
Presumed Structur	re Owner:		Based On C	Comment:				
Local						<u> </u>		
Owner Name:			, Earliest Str	ucture Record:		Estimated Re	econstruction/Repair	r Cost·
New Bedford			1958					00.00
	levation: FIRM	Map Zone:	FIRM Map Elev	vation:				
700		V14		18				
Feet Feet M	NAVD 88		Feet N	IGVD				
Primary Type:	Primary Mate	rial:	Primary Height	<u>. </u>				
Groin/ Jetty	Stone		5 to 10 Feet					
Secondary Type:	Secondary Ma	terial:	Secondary Hei	ght:				
	1		1		Section 1		The section is a	
Condition Rating Level of Action Description	B Good Minor Structure observed to problems, superficial	in nature. Mi	nor erosion	Priority Rating Action Descripti	Consider Listing Inshore	e Structures with		
	to landform is presen adequate to provide p coastal storm with no to prevent / limit futur	protection from damage. Ac	m a major ctions taken		Reside	ructure Damage a ential Dwellings (· et of shoreline)	and/or Limited <1 dwelling impacte	d /
	life of structure.							
	life of structure.	Stru	cture Docume	ents:				
	life of structure.	USA	CE	May 1958	Proposed Sand	Fill 049-009	-000-286-200-COÉ	2A
Structure Image 049-009-000-286-2	life of structure.		CE CE		Proposed Sand		-000-286-200-COE -000-286-200-COE	

Structure Assessment Form

Town: New Bedford

Structure ID: 049-010-000-198-100

Property Owner:		Location:		Date:
Local		East Rodney F	rench Boulevard	7/19/2007
Presumed Structur	e Owner:	Based On Con	nment:	
Local	3 3 1/3		· · · · · · · · · · · · · · · · · · ·	
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
New Bedford		Unkown		\$1,396,560.00
920	1	Feet NGV Primary Height: 5 to 10 Feet	19 /D	
Secondary Type.	Secondary Material:	Secondary Height	:	
Structure Summary	<i>,</i> <i>,</i> :	•		
The stone bulkhea sidewalk, small par	d is mortarted together. The stone rk, a factory, and street located beh	s average 3 feet by ind the structure. M	2 feet in size. The oderate scour at the	nere is a cast in place cap on the bulkhead. There is a the toe and many areas of section loss and stone loss.
Condition	D		Priority	IV
Rating	Poor		Rating	High Priority
Level of Action	Major		Action	Consider for Next Project Construction Listing
Description	Structure exhibits advanced levels deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storn should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threate Landform not adequate to provide during major coastal storm. Action recreate landform to adequate lim protection from a major coastal storn	ng, spalling, ture has and possible m. Structure ated. Actions egain full storm. ned. protection is taken to its for full	Description	High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)
Structure Image 049-010-000-198-1		icture Documen	ts:	

Structure Assessment Form

Structure ID: 049-011-000-030-100

Town: New Bedford

Property Owner:		Location	n:		Date:
Local		West Roo	iney French Boulevard	d	7/19/2007
Presumed Structur	re Owner:	Based On	Comment:		1
Local					
Owner Name:		Earliest St	tructure Record:	Estimate	ed Reconstruction/Repair Cost:
New Bedford		1958			\$63,756.00
	Elevation: FIRM Map Zone:				
420	V14	ł	18		
	NAVD 88	Feet	NGVD		
Primary Type: Bulkhead/ Seawal	Primary Material: Concrete	Primary Heig 5 to 10 Feet	18.00		
Secondary Type:	Secondary Material:	Ü			
Secondary Type.	Secondary Material.	Secondary Ho	eignt:		
Structure Summar	v :				
	wall is 1 foot wide with a walkway,	road, and house	es behind it. There is	minor cracking and spalli	ing, and no visible scour.
				,	,
Condition	В		Priority	111	
Rating	Good		Rating	Moderate Priority	
Level of Action	Minor		Action	Consider for Active Listing	Project Improvement
Description	Structure observed to exhibit verification problems, superficial in nature. It to landform is present. Structure adequate to provide protection for coastal storm with no damage. It to prevent / limit future deterioral life of structure.	Minor erosion e / landform rom a major Actions taken	Description	Inshore Structures v Infrastructure Dama	ge and/or Limited gs (<1 dwelling impacted /
Structure Image	es: Str	ructure Docum	nents:		
049-011-000-030-1		A-DCR		posed Shore 049	-011-000-030-100-DCR1A
049-011-000-030-1	00-PHO1B.JPG MA	A-DCR	November 1 Pro		-011-000-030-100-DCR1B

Structure Assessment Form

Town:

Town: New Bedford

Structure ID: 049-011-000-030-200

Property Owner:		-	Location	า:			Date:	The second secon
Local			· ·	Iney French Bou	levard			7/19/2007
Presumed Structure	e Owner:		, Based On	Comment:			,	Manager and the second
Local	/A + // -						<u></u>	
Owner Name:			Earliest St	ructure Record:		Fst	imated Reconstruct	tion/Penair Cost
New Bedford			1958	a decorate records			diffacta Records del	\$45,540.00
Length: Top E	levation:	FIRM Map Zone:	ETDM Man Ele	ovation				
60	CVAGOTI.	V14	FIRM Map Ele	18	en.			
Feet Feet N	AVD 88	1	r Feet	NGVD				
Primary Type:	B 384 14 14 1	y Material:	Primary Heigl	ht:			2 2 2 2	
Bulkhead/ Seawall	Concr	ete	5 to 10 Feet				- Charles	NAME OF TAXABLE PARTY.
Secondary Type:	Second	lary Material:	Secondary He	eight:				
			1					
Structure Summary The cast in place w		le with public bath h	JOUGA habind it	There is miner	cracking as	ad coolling an	d po visible see w	
line dase in place in	100 T	ie wiai pablie baai i	iouse beriiriu it.	mere is million	Clacking al	iu spaiiiig,ani	a no visible scour.	Application management
	^							
Condition Rating	C Fair			Priority	I			
Level of Action	Moderate			Rating Action		ow Priority	Consideration	AUGUATION AND AUGUSTA
Description Description		ound but may exhibit	minor	Descript.			ures Present with L	imited
	undermining, at to withstand memoderate dame structure to precoastal storm structure. Model landform exist to fully protect storm. Actions	section loss, cracking and/or scour. Structing a storm was a storm may now a storm may now a store	ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal ldition		p	otential for Si	ignificant Infrastruct	ture Damage
Structure Image 049-011-000-030-20		MA-i		January 195	Proposed		049-011-000-030	
		MA-I	UCK	November 1	Proposed	Sand Fill -	049-011-000-030	-200-DCR2B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-011-000-030-300

Local		Location:			Date:	
	**************************************	West Rodne	y French Boulevard	-		7/19/2007
Presumed Structure	Owner:	Based On Co	omment:			
Local			· · · · · · · · · · · · · · · · · · ·			
Owner Name:		; Earliest Stru	cture Record:	Esti	mated Reconstruct	ion/Repair Cost:
New Bedford		1958				\$106,260.00
Length: Top Ele	evation: FIRM Map Zor	ne: FIRM Map Elev	ation:			
140	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/14	18			
Feet Feet NA	AVD 88	Feet No	GVD			
Primary Type:	Primary Material:	Primary Height:				
Bulkhead/ Seawall	Stone	5 to 10 Feet				
Secondary Type:	Secondary Material:	Secondary Heig	ht:			
				The same of		
Structure Summary	: ked stones are approximately 3		2000 700			www.col
Description Description	C Fair Moderate Structure is sound but may ex deterioration, section loss, craundemining, and/or scour. St to withstand major coastal sto moderate damage. Actions tall structure to provide full protect coastal storm and for extendir structure. Moderate wind or walandform exists. Landform ma	cking, spalling, ructure adequate rm with little to ken to reinforce tion from major ng life of rave damage to	Priority Rating Action Description		Consideration res Present with L prificant Infrastruc	
	to fully protect shoreline during storm. Actions taken to provid material for full protection and	g a major coastal e addition				
Structure Image: 049-011-000-030-30		Structure Docume		osed Shore	049-011-000-030	

Structure Assessment Form

Town: New Bedford

Structure ID: 049-011-000-030-400

Property Owner:			Location:			Date:	
Local			West Rodney	French Boule	evard		7/19/2007
Presumed Structur	re Owner:		Based On Co	mment:		ę.	
Local							***
Owner Name:			" Earliest Struc	ture Record:	E	stimated Reconstruct	ion/Renair Cost:
New Bedford			1958		Ī		\$0.00
Length: Top E	levation:	FIRM Map Zone:	FIRM Map Eleva	tion:			
	NAVD 88		Feet NG	VD			
Primary Type:		. Matorial		VD		5= 3 5	
Groin/ Jetty	Stone	y Material:	Primary Height: 5 to 10 Feet			-3.5	
Secondary Type:	,	ary Material:	Secondary Heigh			and The	
,,,,,,,		ary Flaterial.	Secondary rieign	<u> </u>			
Structure Summary	v :						
Placed stone groin	with stones that	are approximately	5 feet by 3 feet by	2 feet in size	. The stones are at a	1 on 1 slope. Behind	the structure
s a small park. Th	he groin starts at	about mean low w	ater.				
Condition	Α			Destaria	11		
Jonullon				Priority			
Rating	Excellent						
* * *	Excellent None			Rating Action	Low Priority Future Projec	ct Consideration	
Level of Action	None Like new condi withstand majo Stable landform	tion. Structure exper or coastal storm with on (beach, dune or b om exists to provide stal storm.	hout damage. eank).		Future Project	ct Consideration ctures Present with L Significant Infrastruct	imited ure Damage
Level of Action	None Like new condi withstand majo Stable landform Adequate syste	r coastal storm with n (beach, dune or b em exists to provide	hout damage. eank).	Action	Future Project	ctures Present with L	imited ure Damage
Level of Action	None Like new condi withstand majo Stable landform Adequate syste	r coastal storm with n (beach, dune or b em exists to provide	hout damage. eank).	Action	Future Project	ctures Present with L	imited ure Damage
Level of Action	None Like new condi withstand majo Stable landform Adequate syste	r coastal storm with n (beach, dune or b em exists to provide	hout damage. eank).	Action	Future Project	ctures Present with L	imited ure Damage
Level of Action Description	None Like new condi withstand majo Stable landforn Adequate syste from major coa	r coastal storm with the control of	hout damage. eank).	Action Description	Future Project	ctures Present with L	imited ure Damage
Level of Action Description tructure Image	None Like new condi withstand majo Stable landforn Adequate syste from major coa	r coastal storm with the coastal storm with the coastal storm with the coastal storm.	nout damage. pank). protection acture Documer	Action Description	Future Project	ctures Present with L	ure Damage
Level of Action Description tructure Image	None Like new condi withstand majo Stable landforn Adequate syste from major coa	r coastal storm with the coastal storm with the coastal storm.	nout damage. pank). protection acture Documer	Action Description nts: ay 1958	Future Project Inshore Struct potential for S	ctures Present with L Significant Infrastruct	ure Damage
Rating Level of Action Description Structure Image 49-011-000-030-4	None Like new condi withstand majo Stable landforn Adequate syste from major coa	r coastal storm with the coastal storm with the coastal storm with the coastal storm.	icture Documer CE M CE A	Action Description This: ay 1958 oril 1977 anuary 195	Future Project Inshore Struct potential for S	ctures Present with L Significant Infrastruct	ure Damage 400-COE4A 400-COE4B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-012-000-247-100

Property Owner:		Location:		Date:
Local		East Rodney	French Boulevard	7/19/2007
Presumed Structur	re Owner:	Based On Co	omment:	, , , , , , , , , , , , , , , , , , , ,
Local	The second second			
Owner Name:		Earliest Struc	cture Record:	Estimated Reconstruction/Repair Cost:
New Bedford		1981		\$270,270.00
	levation: FIRM Map Zone:	FIRM Map Eleva	ition:	
450	V14		19	
Feet Feet !	NAVD 88	Feet NO	GVD	
Primary Type:	Primary Material:	Primary Height:		
Revetment	Stone	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Heigl	nt:	
Structure Summar				
The placed stone i	revetment has a 1 on 2 slope with s oss and stone settlement.	tones that average	e 4 feet by 2 feet in	size. The stones are mortared together. There is
The desirate moral i	ous and stone settlement.			
Condition	С		Priority	1
Rating	Fair		Rating	None
Level of Action	Moderate		Action	Long Term Planning Considerations
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Struct to withstand major coastal storm of 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 of fully protect shoreline during a storm. Actions taken to provide act material for full protection and extending the storm of the storm of the storm of the storm.	ng, spalling, ure adequate with little to to reinforce from major e of damage to to be sufficient major coastal Idition	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Image		icture Docume		posed Timber 049-012-000-247-100-COE1A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-012-000-247-200

Property Owner:		Location:		7-14	Date:
Local		East Rodney I	Boulevard		7/19/2007
Presumed Structure	e Owner:	Based On Con	nment:		
Local			94		
Owner Name:		Earliest Struct	ure Record:	Estimated I	Reconstruction/Repair Cost:
New Bedford		1981		Ţ	\$33,264.00
Length: Top El	levation: FIRM Map Zone	: FIRM Map Elevati	ion:		
100					
Feet Feet N	IAVD 88	Feet NG\	/D	Carried States of the	
Primary Type:	Primary Material:	Primary Height:	211.		4
Revetment	Stone	Under 5 Feet	7	POPOLE !	4-7
Secondary Type:	Secondary Material:	Secondary Height			57
Structure Summary					
The dumped stone	riprap is adjacent to the precast	boat ramp. The ston	es are 400 to 5	00 pounds on average.	
Condition	С		Priority	II	
Rating	Fair		Rating	Low Priority	
Level of Action	Moderate		Action	Future Project Conside	eration
Description	Structure is sound but may exh deterioration, section loss, crac undermining, and/or scour. Strutto withstand major coastal storr moderate damage. Actions take structure to provide full protectic coastal storm and for extending structure. Moderate wind or wall tandform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and extending storms.	king, spalling, acture adequate an with little to an to reinforce on from major life of we damage to not be sufficient a major coastal addition	Description	Inshore Structures Pre potential for Significan	esent with Limited t Infrastructure Damage
Structure Image	es: Si	tructure Documen	tc·		
049-012-000-247-20				roposed Timber 049-0	12-000-247-200-COE2A
,				1040-U	L GOUZHI-ZOU-GOLZA

Structure Assessment Form

Town: New Bedford Structure ID: 049-013-000-055-100

Key: community-map-block-parcel-structure Property Owner: Location: Date: Local West Rodney French Boulevard 7/19/2007 Presumed Structure Owner: Based On Comment: Local Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: New Bedford 1958 \$925,980.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 610 V14 Feet Feet NAVD 88 Feet NGVD Primary Material: Primary Height: Primary Type: Bulkhead/ Seawall 5 to 10 Feet Concrete Secondary Type: Secondary Material: Secondary Height: Revetment Stone Structure Summary: The cast in place wall is 1 foot wide with a road and houses behind it. There are areas of section loss, cracking, and scour at the toe. There is minor erosion behind the wall. D Ш Condition **Priority** Poor Moderate Priority Rating Rating Consider for Active Project Improvement Major Level of Action Action Listing Structure exhibits advanced levels of Description Inshore Structures with potential for deterioration, section loss, cracking, spalling, Description Infrastructure Damage and/or Limited undermining, and/or scour. Structure has Residential Dwellings (<1 dwelling impacted / strong risk of significant damage and possible 100 feet of shoreline) 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. 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. Structure Images: Structure Documents: 049-013-000-055-100-PHO1A.JPG MA-DCR January 195 Proposed Shore 049-013-000-055-100-DCR1A MA-DCR November 1 Proposed Sand Fill -049-013-000-055-100-DCR1B

Structure Assessment Form

Town: New Bedford

Structure ID: 049-013-000-055-200

up of 5 stones making it	Primary Material: Stone Secondary Material:	Earliest 1958 ne: FIRM Map I V14 Fee Primary He 5 to 10 Fee Secondary	18 et NGVD ight:		Estimated Reconstruction/Repair Cost: \$120,000.00
Local Owner Name: New Bedford Length: Top Elevation 500 Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making it	Primary Material: Stone Secondary Material: groins. Stones are approx	Firmary Heist Secondary	Structure Record: Elevation: 18 et NGVD ight:		
Owner Name: New Bedford Length: Top Elevation 500 Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making it	Primary Material: Stone Secondary Material: groins. Stones are approx	Firmary Heist Secondary	Structure Record: Elevation: 18 et NGVD ight:		
Length: Top Elevation 500 Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making it	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary He Secondary	Elevation: 18 et NGVD ight:		
New Bedford Length: Top Elevation 500 Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making it	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary He Secondary	Elevation: 18 et NGVD ight:		
Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making if	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary Hei Secondary	18 et NGVD ight:		
Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making if	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary He 5 to 10 Fee Secondary	18 et NGVD ight:		
Feet Feet NAVD Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making in	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary He 5 to 10 Fee Secondary	et NGVD ight:		
Primary Type: Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making if	Primary Material: Stone Secondary Material: groins. Stones are approx	Primary He 5 to 10 Fee Secondary	ight: et		
Groin/ Jetty Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making if	Stone Secondary Material: groins. Stones are approx	5 to 10 Fee Secondary	et		
Secondary Type: Structure Summary: Set of two placed stone up of 5 stones making if	Secondary Material: groins. Stones are approx	Secondary			
Structure Summary : Set of two placed stone up of 5 stones making if	groins. Stones are approx		Height:		
Set of two placed stone up of 5 stones making it	groins. Stones are approximately 10 feet wi	cimately 5 feet by		1240	THE RESERVE OF THE PARTY OF THE
Set of two placed stone up of 5 stones making it	groins. Stones are approx approximately 10 feet wi	rimately 5 feet by			- WATER AND
up of 5 stones making it	groins. Stones are approx approximately 10 feet wi	amately 5 feet by	25 11 25 11		
		ide. There is no si	s reet by 2 feet in ign of stone mover	size. The stones are ment or scour.	e at a 1 on 1 slope. The crest is made
7 1: P					
Condition B			Priority	łII	
Rating God			Rating	Moderate F	•
Level of Action Min			Action	Consider for Listing	or Active Project Improvement
prot to la ade coa to p	cture observed to exhibit lems, superficial in natur ndform is present. Struct quate to provide protectio tal storm with no damagor event / limit future deterion of structure.	e. Minor erosion cture / landform n from a major e. Actions taken	<i>Descripti</i>	ion Inshore Str Infrastructu	ructures with potential for ure Damage and/or Limited Il Dwellings (<1 dwelling impacted / f shoreline)
tructure Images:		Structure Docu			
49-013-000-055-200-P		USACE	April 1977	Proposed Shore	049-013-000-055-200-COE2A
		MA-DCR	January 195	Proposed Shore	049-013-000-055-200-DCR2A - 049-013-000-055-200-DCR2B
		MA-DCR	November 1	Proposed Sand Fill	

Structure Assessment Form

Town: New Bedford

Structure ID: 049-025A-000-048-100

Property Owner:		Location:		Da	ite:
Local		Gifford Street			7/19/2007
Presumed Structur	re Owner:	Based On Con	nment:	,	
Local				the state of the s	
Owner Name:		Earliest Struct	ure Record:	Estimated Reco	nstruction/Repair Cost:
New Bedford		Unkown		Estimated Neces	\$153,014.00
Length: Top E	Elevation: FIRM Map Zone:	FIRM Map Elevati	ion:		
460	A1		6		
Feet Feet M	NAVD 88	Feet NGV	/D		
Primary Type:	Primary Material:	Primary Height:		The state of the s	
Revetment	Stone	Under 5 Feet			<u>ā</u>
Secondary Type:	Secondary Material:	Secondary Height	:		
Structure Summan	v:				*
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm without moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a nistorm. Actions taken to provide admaterial for full protection and extended.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal ldition	Priority Rating Action Description	I None Long Term Planning Consi No Inshore Structures or R Units Present	
Structure Image 149-025A-000-048-		icture Document	ts:		

Structure Assessment Form

Town: New Bedford

Structure ID: 049-037-000-305-100

Presumed Structure Owner: Local Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: New Bedford Unkown \$391,248.00	Property Owner:		Location:		Dat	e:
Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: New Bedford Unknown \$391,248.00	Local		South Pier			8/2/2007
Owner Name: Searliest Structure Record: Unkown S391,248.00	Presumed Structure	e Owner:	Based On Com	ment:	,	
New Bedford Unkown \$391,248.00	Local					
New Bedford Unkown \$391,248.00 \$39	Owner Name:		" Earliest Structu	re Record:	Estimated Recon-	struction/Repair Cost:
1560 Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Concrete 10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Structure Summary: The cast in place concrete bulkhead has a fish processing plant behind it. There is minor cracking and spalling on the bulkhead. At the time of the survey, the fender system was being repaired. Condition B Rating Good Rating High Priority Level of Action Minor Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure Inafform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	New Bedford	M2-111-2				
Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height:		The second secon	FIRM Map Elevation	on:		
Primary Type: Primary Material: Primary Height: 10 to 15 Feet Secondary Type: Secondary Material: Secondary Height: Sec]]		1			
Bulkhead/ Seawall Concrete 10 to 15 Feet			Feet NGVI	0		
Structure Summary: The cast in place concrete bulkhead has a fish processing plant behind it. There is minor cracking and spalling on the bulkhead. At the time of the survey, the fender system was being repaired. Condition B Rating Good Rating High Priority Level of Action Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Action and extend life of structure. Structure I limit future deterioration and extend life of structure. Structure I mages: Structure Documents:			The state of the s	<u> </u>		
Structure Summary: The cast in place concrete bulkhead has a fish processing plant behind it. There is minor cracking and spalling on the bulkhead. At the time of the survey, the fender system was being repaired. Condition B Rating Good Rating High Priority Action Consider for Next Project Construction Listing Processing of Next Project Construction Listing Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	•	•	•		The state of the s	100
There cast in place concrete bulkhead has a fish processing plant behind it. There is minor cracking and spalling on the bulkhead. At the time of the survey, the fender system was being repaired. Condition B Condition B Good Action Consider for Next Project Construction Listing High Priority Level of Action Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Documents: Structure Documents:	Secondary Type:	Secondary Material:	Secondary Height:			
There cast in place concrete bulkhead has a fish processing plant behind it. There is minor cracking and spalling on the bulkhead. At the time of the survey, the fender system was being repaired. Condition B Condition B Good Action Consider for Next Project Construction Listing High Priority Level of Action Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Documents: Structure Documents:	Street was 6	4	1			
Rating Good Rating Level of Action Minor Action Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	The cast in place of the survey, the fen	oncrete bulkhead has a fish process der system was being repaired.	sing plant behind it.	There is minor cr	acking and spalling on the bulkh	ead. At the time of
Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:				_		
Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings impacted / 100 feet of shoreline) Figh Value Inshore Structure Damage and/or Moderate Density Residential Dwellings impacted / 100 feet of shoreline)		17.7			-	
problems, superficial in nature. Minor erosion to landform is present. Structure / landform and equate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:			minor			-
		to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration	/ landform m a major ctions taken		Density Residential Dwelling	s (1-10 dwellings
049-037-000-305-100-PHO1A.JPG			ucture Document	s:		
	049-037-000-305-1	00-PHO1A.JPG				

Structure Assessment Form

Town: New Bedford

Structure ID: 049-047-000-180-100

Property Owner:		Location:		Date:
Local	New York Control of the Control of t	Homer's Whar	f	7/19/2007
Presumed Structure	e Owner:	Based On Com	ment:	1
Local				
Owner Name:		" Earliest Structe	ure Record:	Estimated Reconstruction/Repair Cost:
New Bedford		Unkown		\$411,840.00
1	levation: FIRM Map Zone:	FIRM Map Elevati	on:	
1200	A1		6	
	IAVD 88	Feet NGV	/D	
Primary Type: Bulkhead/ Seawall	Primary Material: Steel	Primary Height:	7 · 10.	
•	,	Over 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height	<u>:</u>	A HOLD HOLD HE WAS A STATE OF THE STATE OF T
Structure Summary	,.	1		
The sheet pile bulk	head has a steel cap. There is mo	derate corrosion at t , fishing equipment	he tidal zone, but storage, warehous	no visible erosion behind the piles. The bulkhead ses, and building above the structure.
Condition	В		Priority	III
Rating	Good		Rating	Moderate Priority
Level of Action	Minor		Action	Consider for Active Project Improvement Listing
Description	Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.	inor erosion / landform om a major ctions taken	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 049-047-000-180-10		ucture Document	ts:	

Structure Assessment Form

Town: New Bedford

Structure ID: 049-047-000-203-100

Property Owner:		Locatio	n:		Date:
State		State Pie	er .		7/19/2007
Presumed Structur	e Owner:	Based Or	n Comment:		
State	A(0) 1/2 (-1 · · · · · · · · · · · · · · · · · ·				
1		1			
Owner Name:		Earliest S	Structure Record:	_ <u>Es</u>	timated Reconstruction/Repair Cost:
l CK	CONTRACTOR DEPOSITS AND ADMINISTRATION OF THE PARTY OF TH	20/3			\$2,376,000.00
Length: Top E	levation: FIRM Ma	p Zone: FIRM Map E	levation:		
1200		A1	6		A STATE OF THE STA
Feet Feet N	IAVD 88	Feet	t NGVD		
Primary Type:	Primary Material:	Primary Heig	ght:		
Bulkhead/ Seawall		Over 15 Fee	A NAME OF ACT OF THE PARTY OF T		The state of the s
Secondary Type:	Secondary Materia	al: Secondary H	leight:		
Structure Summary	<i>t</i> :	-			AND THE PARTY OF T
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but madeterioration, section loss undermining, and/or scouto withstand major coasta moderate damage. Action structure to provide full procastal storm and for extructure. Moderate wind landform exists. Landform to fully protect shoreline of storm. Actions taken to p material for full protection	s, cracking, spalling, ir. Structure adequate al storm with little to as taken to reinforce rotection from major ending life of l or wave damage to a may not be sufficient during a major coastal rovide addition	Priority Rating Action Descript	Consider For Safety and W Critical Inshor Potential for II High Density of structure m stabilization a loss of proper	lighest Priority Immediate Action Due to Public elfare Issues e Structures Present with infrastructure Damage and/or Residential Dwellings Condition any warrant emergency s failure may result in potential ty and/or life. (>10 dwellings 0 feet of shoreline)
·		and the second of the second o	_		
Structure Image 049-047-000-203-1		Structure Docu		[D	1040 047 000 000 400 000
)49-047-000-203-1)49-047-000-203-1		MA-DCR	April 1939	Proposed Timber	049-047-000-203-100-DCR1A
		MA-DCR	May 1946	Proposed Pier	049-047-000-203-100-DCR1B
49-047-000-203-1	UU-PMUTU.JPG	MA-DCR	October 194	New Bedford State	049-047-000-203-100-DCR1C
		MA-DCR	April 1961	Proposed Pier	049-047-000-203-100-DCR1D
		MA-DCR	December 1	Proposed Bulkhead -	049-047-000-203-100-DCR1E
		MA-DCR	May 1999	Harbor Development	049-047-000-203-100-DCR1F
		MA-DCR	May 2002	New Bedford harbor	049-047-000-203-100-DCR1G
		DEP	August 1979	Plan Accompanying	049-047-000-203-100-LIC1A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-047-000-204-100

	Location:		Date:
	Coal Pocket	Pier	7/19/2007
Owner:	Based On Co	mment:	
	Earliest Struc	ture Record:	Estimated Reconstruction/Repair Cost:
	1984		\$595,650.00
ation: FIRM Map Zone	e: FIRM Map Eleva	tion:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
A	1	6	
'D 88	Feet NO	GVD	
Primary Material:	Primary Height:		
Concrete	10 to 15 Feet		
Secondary Material:	Secondary Heigh	nt:	
1			Land of the land o
			construction material is not visible below the water
ate cracking and settling of the	e concrete. Behind th	e pier is a parking lo	it.
, air		Priority	III Moderate Priority
loderate		Rating Action	Consider for Active Project Improvement
tructure is sound but may exh		Action	Listing
eterioration, section loss, crace ndermining, and/or scour. Structure to provide full protection astal storm and for extending tructure. Moderate wind or was and form exists. Landform may be full protect shoreline during torm. Actions taken to provide naterial for full protection and exists.	ucture adequate m with little to en to reinforce on from major y life of eve damage to not be sufficient a major coastal addition	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
			Accompanying 049-047-000-204-100-LIC1A
			Structure Documents: PG DEP June 1984 Plan A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-047-000-212-100

Property Owner:			Location:			Date:
Local			Leonard's Wh	arf	, , , , , , , , , , , , , , , , , , , ,	7/19/2007
Presumed Structur	e Owner:	:	Based On Cor	nment:		,
Local	· · · · · · · · · · · · · · · · · · ·					
Owner Name:			Earliest Struct	ure Record:	Estimated F	Reconstruction/Repair Cost:
New Bedford			Unkown			\$260,832.00
	levation:		FIRM Map Elevat			
1040		A1		6		
	88 dvan		Feet NG	VD	No.	
Primary Type: Bulkhead/ Seawall		Primary Material:	Primary Height:	 -		
		Steel	10 to 15 Feet			MELLER
Secondary Type:	_	Secondary Material:	Secondary Heigh	<u>t:</u>		
l Structure Summar					NAME OF THE PERSON OF THE PERS	
Condition Rating Level of Action Description	problen to landi adequa coastal	re observed to exhibit very ns, superficial in nature. Mi form is present. Structure te to provide protection fro storm with no damage. A ent / limit future deterioratio	nor erosion / landform m a major ctions taken	Priority Rating Action Description	II Low Priority Future Project Conside Inshore Structures Pre potential for Significant	
	ine of s	tructure.				
Structure Image 049-047-000-212-1	00-PHO	1A.JPG	octure Documer	its:		
			,			

Structure Assessment Form

Town: New Bedford

Structure ID: 049-047-000-219-100

Property Owner:		Location:			Date:
Local	· <u>.</u>	Between Leor	nard's Wharf and H	omer's Wharf	7/19/2007
Presumed Structure	e Owner:	Based On Cor	nment:		
Local					
Owner Name:		Earliest Struct	ure Record	Estimated	Reconstruction/Repair Cost:
New Bedford		Unkown	are Record.	Estimated	\$43,560.00
Length: Top El	evation: FIRM Map Zone:	FIRM Map Elevat	ion:	1 and	
1 1	AVD 88	Feet NG			
Primary Type:	Primary Material:	Primary Height:			西田 西田 田
Bulkhead/ Seawall	Stone	Over 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height	t:		
1					
Structure Summary The sheet pile bulk	: head has a steel cap. There is mo	derate corrosion at	the tidal zone, but	no visible eresion behind	the piles. The hullshand
has fender piles. T	here is a building directly behind the	ne bulkhead.	ule ddai zorie, but	no visible erosion beninu	ule piles. The bulkhead
Condition	В		Priority	III	
Rating	Good		Rating	Moderate Priority	
Level of Action	Minor		Action	Consider for Active Pr Listing	oject Improvement
Description	Structure observed to exhibit very problems, superficial in nature. Mito landform is present. Structure adequate to provide protection fro coastal storm with no damage. A to prevent / limit future deterioration life of structure.	inor erosion / landform m a major ctions taken	Description	Inshore Structures wit	
Structure Ima ge 049-047-000-219-10		ucture Documen	its:		

Structure Assessment Form

Town: New Bedford

Structure ID: 049-053-000-120-100

		Location:			Date:	
Local	-	Fisherman's	Wharf			7/19/2007
Presumed Structur	re Owner:	Based On Co	omment:		•	
Local						
Owner Name:		Earliest Stru	cture Record:	Est	imated Reconstruc	tion/Repair Cost:
New Bedford		1977				\$294,690.00
Length: Top E	levation: FIRM Map 2	Cone: FIRM Map Elev	ation:			
1175		A1	6			
Feet Feet !	NAVD 88	Feet N	GVD		a what we	
Primary Type:	Primary Material:	Primary Height:		6		TE.
Bulkhead/ Seawall	Steel	10 to 15 Feet		9 0		造工
Secondary Type:	Secondary Material:	Secondary Heig	ıht:			
Structure Summar	v:					
lot.	chead has a steel cap and tim	ber fender system. Abo	ove the structure is a s	mali museum, h	arbor master's offic	e, and parking
Condition	В		Priority	111		
Rating	Good		Rating	Moderate Prio	•	
Level of Action Description	Minor Structure observed to exhib	it van enimar	Action	Consider for A Listing	ctive Project Impro	vement
•	problems, superficial in natu to landform is present. Str adequate to provide protect coastal storm with no dama to prevent / limit future dete life of structure.	ucture / landform ion from a major ge. Actions taken	Description	Infrastructure	ures with potential Damage and/or Lin vellings (<1 dwellir oreline)	nited
Structure Image	es:	Structure Docume	ents:			
Structure Image 049-053-000-120-1				sed Bulkhead,	049-053-000-120	-100-COE1A

Structure Assessment Form

Town: New Bedford

Structure ID: 049-066-000-165-100

Property Owner:			Location	1:			Date:	
Local			North Ter	minal Bulkhead			8,	/2/2007
Presumed Structure	e Owner	:	Based On	Comment:			•	
Local					· <u> </u>			
Owner Name:			farliest St	ructure Record:		Fo	stimated Reconstruction/Repair	r Cost
New Bedford			1961	addare records	_		\$237,6	
longth. Tan F	laat:	PIDA M	, FIRM No. 5			,1		Name of the last
Length: Top E	levation:	FIRM Map Zo	ne: FIRM Map Ele	evation:			and the second	
1	IAVD 88	1		NGVD	Y 5			
Primary Type:		Primary Material:	Primary Heigi	ht.	N.	77		
Bulkhead/ Seawall		Concrete	Over 15 Feet		7.6			
Secondary Type:		Secondary Material:	Secondary He	eight:	10			
						ķ.		
Structure Summary								
The cast in place of	oncrete	bulkhead has a factory likhead. The top of the	behind it. There is	minor cracking	and spalling.	The mean	high water is approximately 1	.0
cet from the top o	a dic bu	ikilead. The top of the	Wan Contains drain	age noies.				
Condition	В			Priority	IV			
Rating	Good			Rating	Higi	h Priority		
Level of Action	Minor			Action			Next Project Construction Listi	-
Description	probler to land adequa coasta to prev	ire observed to exhibit ms, superficial in natur form is present. Struct ate to provide protection I storm with no damag ent / limit future deteri structure.	e. Minor erosion cture / landform in from a major e. Actions taken	Descripti	for I Den	nfrastruct sity Resid	ishore Structures with Potentia ure Damage and/or Moderate dential Dwellings (1-10 dwellin 10 feet of shoreline)	
tructure Image		1A.JPG	Structure Docum	nents:	Proposed Si	reel	049-066-000-165-100-COE	
			MA-DCR	January 196	Proposed H		049-066-000-165-100-DCR	
			DEP	October 196	Plan Accom		049-066-000-165-100-LIC1	

Structure Assessment Form

Town: New Bedford

Structure ID: 049-066-000-165-200

Property Owner: Local Presumed Structure Owner: Local Owner Name: New Bedford		Location	Location: North Terminal Bulkhead Based On Comment:		Date:		
		North Ten			8/2/200		
		Based On					
		Earliest St	Earliest Structure Record: 1961		Estimated Reconstruction/Repair Cost: \$247,500.00		
		1961					
	evation: FIRM Map Zor		· · · · · · · · · · · · · · · · · · ·				
625		A1	6				
Feet Feet N	AVD 88	Feet	NGVD				
Primary Type: Bulkhead/ Seawall	Primary Material:	Primary Heigh Over 15 Feet	417 7 4		FLER		
	•						
Secondary Type:	Secondary Material:	Secondary He	eight:				
Structure Summary		il					
The cast in place co	oncrete bulkhead has timber fe	nder piles. There is	a factory behind the	structure. There i	s minor spalling and	cracking in the	
concrete. Mean hig	h water goes to approximately	10 feet from the to	op of the bulkhead. T	he top of the wall	contains drainage ho	les.	
Condition	В		D. 1. 1.	15.7			
Conaition Rating	Good		Priority Rating	IV High Priority			
Level of Action	Minor		Action	•	Next Project Constru	ction Listing	
Description Structure observed to exhibit very problems, superficial in nature. Mir to landform is present. Structure adequate to provide protection from coastal storm with no damage. Act to prevent / limit future deterioration life of structure.		e. Minor erosion ture / landform n from a major e. Actions taken	minor Description nor erosion / landform n a major ctions taken		High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)		
Structure Image		Structure Docum					
Structure Image: 049-066-000-165-20	0-PHO2A.JPG	Structure Docum MA-DCR DEP	January 196 Prop	posed Harbor	049-066-000-165- 049-066-000-165-		

Structure Assessment Form

Town: New Bedford

Structure ID: 049-066-000-165-300

Property Owner:		Location			Date:		
Local		North Terr	North Terminal Bulkhead		8/2/2007		
Presumed Structure	e Owner:	Based On (Comment:		,		
Local							
Owner Name:		; Earliest Str	ucture Record:	Fs	timated Reconstruction/Repair Cost:		
New Bedford		1963			\$3,946,800.00		
Longth: Top El	levation: FIRM Map Z						
Length: Top El	levation: FIRM Map Z	one: FIRM Map Ele	vation: 6				
Feet Feet N	AVD 88	i Feet I	NGVD				
Primary Type:	Primary Material:	Primary Heigh	t:				
Bulkhead/ Seawall	Steel	Over 15 Feet	1202				
Secondary Type:	Secondary Material:	Secondary He	ight:_				
Structure Summary		and the Artist					
well as warehouses	e bulkhead has a concrete cap s and buildings. There is moo) and timber fender pi lerate corrosion at the	les on it. Behind to tidal zone of the s	the structure is a stora sheet piles.	age area for sand and gravel as		
1	-						
Condition	С		Priority	11	Baseryana		
Rating	Fair		Rating	Low Priority	and the second		
Level of Action	Moderate		Action		t Consideration		
Description	Structure is sound but may deterioration, section loss, of undermining, and/or scourds to withstand major coastal stomate damage. Actions is structure to provide full protecoastal storm and for extending structure. Moderate wind or landform exists. Landform into fully protect shoreline during storm. Actions taken to provimaterial for full protection and determined in the structure.	racking, spalling, Structure adequate torm with little to taken to reinforce ection from major ling life of wave damage to hay not be sufficient ang a major coastal ide addition	g, spalling, pote ire adequate ith little to o reinforce from major e of damage to t be sufficient najor coastal dition		shore Structures Present with Limited tential for Significant Infrastructure Damage		
Structure Image 049-066-000-165-30			June 1963 F December 1	Plan Accompanying Plan Accompanying Plan Accompanying	049-066-000-165-300-LIC3A 049-066-000-165-300-LIC3B 049-066-000-165-300-LIC3C		

Section II - New Bedford

Part C

Structure Photographs

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

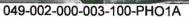
TOWN: NEW BEDFORD

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TOWN: NEW BEDFORD SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: SEPTEMBER 2007

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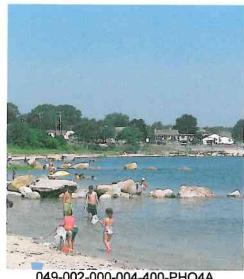
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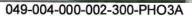


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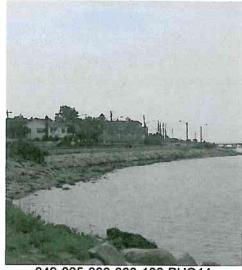
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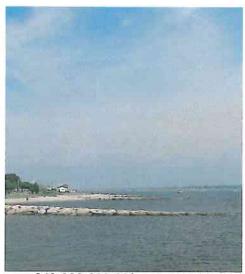




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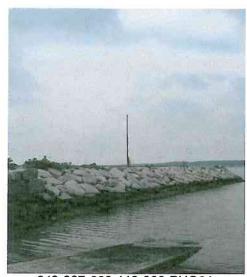
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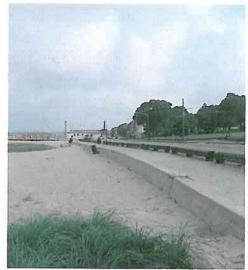
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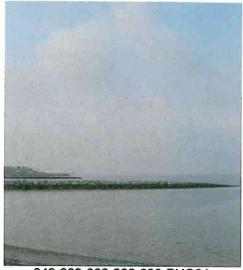
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049-009-000-286-100-PHO1C



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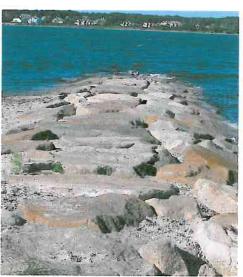
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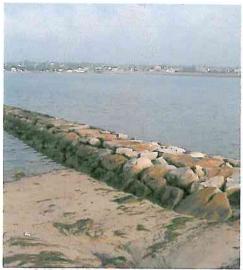
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049-013-000-055-200-PHO2A



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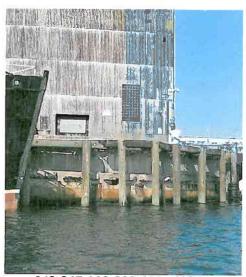
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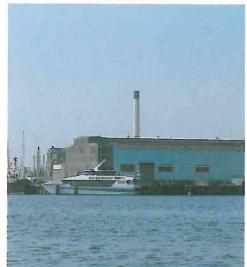
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049-047-000-203-100-PHO1A



049-047-000-203-100-PHO1B



049-047-000-203-100-PHO1C



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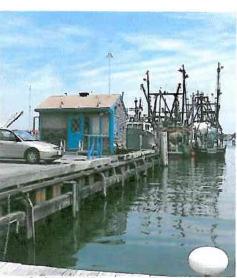
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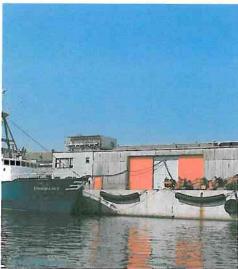
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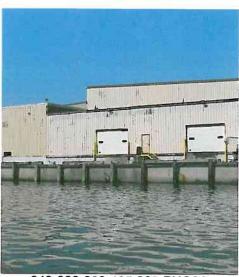
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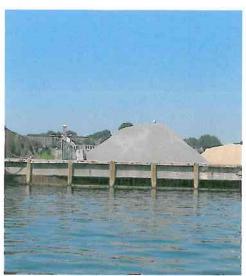
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049-066-000-165-100-PHO1A



049-066-000-165-200-PHO2A



049-066-000-165-300-PHO3A

Section II - New Bedford

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP – Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



CITY: Now Bedford
SOURCE: City of Now Bedford
LOCATION: CITY
DATE OF RESEARCH: JUNE 2007
BCE Structure No

ture No Document No Drawing Entity Municipality Date Number	Title	heeta	Description
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TOWN: NEW BEDFORD SOURCE: M.A. - DGR LOCATION: MA - DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date		Sheets	Location	Description
048-002-000-004-200	049-002-000-004-200-DCR2A	1852	MA-DCR	New Bedford	September 1958	Proposed Shore Development - Stone Groin and Sand - Rodney French Boulevard (East) Southerly of City Pier - New Bedford - Prepared for DPW of MA - Division of Waterways	69	East Rodney Franch Boulevard - South of Clty Pier	Stone Groin and Sand Fill
049-002-000-004-300	049-002-000-004-300-DCR3A	1488	MA-DCR	New Bedford	May 1955	Proposed Hurricane Repairs at Four Locations in New Bedford, MA - Prepared for DPW of MA - Division of Waterways	4	Marine Park, City Pler, City Beach, Clarks Cove	
049-002-000-004-300	04B-002-000-004-300-DCR3B	1585	MA-DCR	New Bedford	June 1958	Proposed Hurricane Damage Repalrs - Rodney French Bouleverd East - New Bedford - Prepared for DPW of MA - Division of Waterways	9	At Rodney French Boulevard and Town Pler	Groin and Pier
049-002-000-004-400	048-002-000-004-400-DCR4A	1585	MA-DCR	New Bedford	June 1850	Proposed Hurricane Darnage Repairs - Rodney French Boulevard East - New Bedford - Prepared for DPW of MA - Division of Waterways	9	At Rodney Franch Boulevard and Town Pier	Groin and Pier
049-002-000-004-400	049-002-000-004-400-DCR4B	1812	MA-DCR	New Bedford	January 1958	Proposed Shore Protection - Rodney French Boulevard - East and West - Prepared for DPW of MA - Division of Weterways	6	North Half of West Rodney French Boulevard and Poor Farm to Town Pier of East Rodney French Bouleverd	Shore Protection
049-004-000-002-100	049-004-000-002-100-DCR1A	1812	MA-DCR	New Bedford	January 1858	Proposed Shore Protection - Rodney French Boulevard - East and West - Prepared for DPW of MA - Division of Waterways	0	North Half of West Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard	Share Protection
049-004-000-002-100	049-004-000-002-100-DCR1B	2533	MA-DCR	New Bedford	March 1986	Proposed Shore Improvements - Seawall, Sandfill and Groin - Rodney French Boulevard East - Vicinity of Hudson Street	2	Rodney French Boulevard by Hudson Street	Seawall, Sandfill and Groin
049-004-000-008-100	049-004-000-008-100-DCR1A	1812	MA-DCR	New Bedford	January 1858	Proposed Shore Protection - Rodney French Boulevard - East and West - Prepared for DPW of MA - Division of Waterways	6	North Half of West Rodney French Boulevard and Poor Farm to City Pier of East Rodney French Boulevard	Shore Protection
048-004-000-008-100	049-004-000-006-100-DCR1B	2533	MA-DCR	New Bedford	March 1966	Proposed Shore Improvements - Seawall, Sandfill, and Groin - Rodney French Boulevard East - Vicinity of Hudson Street	2	Rodney French Boulevard by Hudson Street	Seawall, Sandfill, and Groin
048-005-000-003-100	049-005-000-003-100-DCR1A	1847	MA-DCR	New Bedford	August 1856	Proposed Hurricane Damege Repains - Rodney French Boulevard West - New Bedford - Prepered for DPW of MA - Division of Waterways	-	Portland to Corel Street	Stone Mound
048-005-000-003-100	048-005-000-003-100-DCR18	2805	MA-DCR	New Ведford	November 1978	Proposed Sand Fill - Groin Extensions and Shore Protection - West Beach Seawail - Clark Point - New Bedrord, MA - Prepared for DPW of MA - Division of Waterways	±	Rodney Franch Boulevard West	Sand Fill, Groin Extension and Seawall
048-007-000-112-100	049-007-000-112-100-DCR1A	1813	MA-DCR	New Bedford	July 1857	Proposed Boat Ramp - Rodney French Boulevard - West - Prepared for DPW of MA - Division of Waterways		West Rodney French Boulevard	Boat Ramp
049-007-000-112-100	049-007-000-112-100-DCR1B	2805	MA-DCR	New Bedford	November 1978	Proposed Sand Fill - Groin Extension and Shore Protection - West Baach Seawall - Clark Point - new Bedford, MA - Prepared for DPW of MA - Division of Waterways	11	Rodney French Boulevard - West	Sand Fill, Groin Extension and Seawall
049-007-000-112-200	049-007-000-112-200-DCR2A	1813	MA-DCR	New Bedford	July 1957	Proposed Boat Ramp - Rodney French Boulevard - West - Prepared for DPW of MA - Division of Waterways	-	West Rodney French Boulevard	Boat Ramp
049-007-000-112-200	049-007-000-112-200-DCR2B	2905	MA-DCR	New Bedford	November 1878	Proposed Sand Fill - Groin Extensions and Shore protection - West Beach Seewall - Clark Point - New Bedford, MA - Prepared for DPW of MA - Division of Waterways	+	Rodney French Bouleverd - West	Sand Fill, Groin Extension, and Seawall
049-007-000-112-300	049-007-000-112-300-DCR3A	1647	MA-DCR	New Bedford	August 1956	Proposed Hurricane Damege Repains - Rodney French Boulevard West - New Bedford - Prepered for DPW of MA - Division of Waterways	-	Portland to Coral Street	Stone Mound
049-007-000-112-300	049-007-000-112-300-DCR3B	2905	MA-DCR	New Bedford	November 1978	Proposed Sand Fill - Groin Extension and Shore Protection - Wosts Beach Seawall - Clark Point - New Bedford, MA - Prepared for DPW of MA - Division of Waterwaye	11	Rodney French Boulevard - West	Sand Fill, Groin Extension and Seawall
049-007-000-112-400	049-007-000-112-400-DCR4A	1847	MA-DCR	New Bedford	August 1956	Proposed Hurricane Damage Repains - Rodney Franch Boulevard West - New Bedford - Prapared for DPW of MA - Division of Waterways	-	Portland Street to Coral Street	Stone Mound
049-007-000-112-400	049-007-000-112-400-DCR4B	2905	MA-DCR	New Bedford	November 1978	Proposed Sand Fill - Groin Extension and Shore Protection - Wast Beach Seawall - Clark Point - New Bedford, MA - Prepared for DPW of MA - Division of Watenwaye	11	Radney French Boulevard West	Sand Fill, Groin Extension and Seawall
048-008-000-288-100	049-009-000-286-100-DCR1A	2905	MA-DCR	New Bedford	November 1978	Proposed Sand Fill - Groin Extensions and Shore Protection - West Beach Seavall - Clark Point - New Bedroxi, MA - Prepared for DPW of MA - Division of Waterways	=	Rodney French Bouleverd West	Sand Fill, Groin Extension and Seawall

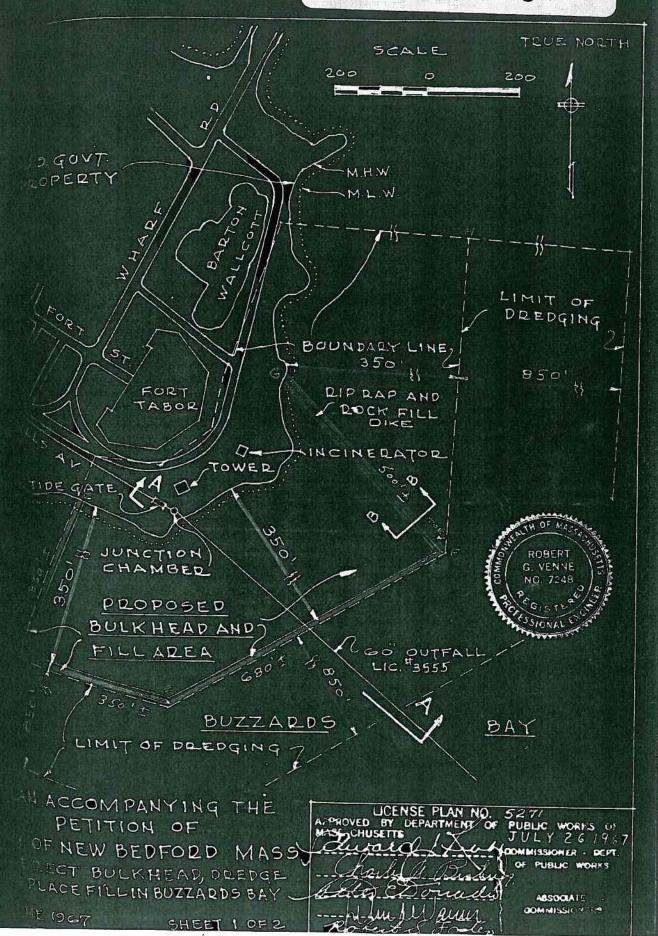
SOURCE: MA - DCR LOCATION: MA - DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

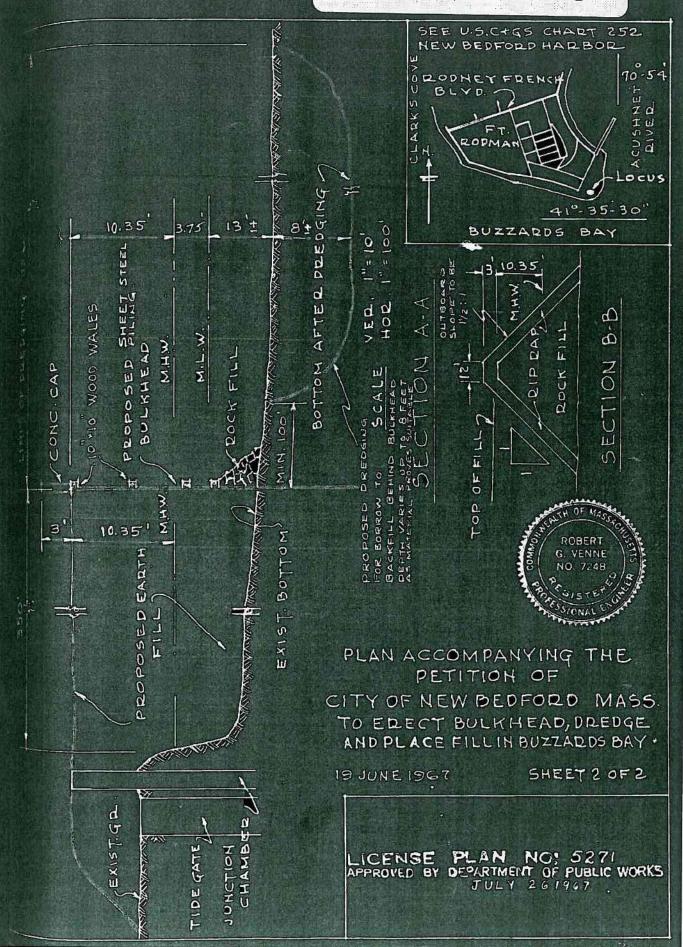
Sand Fill, Groin Extension, and Seawall Sand Fill, Groln Extension and Seawail and Fill, Groin Extension, and Seawall Sand Fill, Groln Extension and Seawall sand Fill, Groin Extension and Seawall Sand FIII, Groin Extension and Seawall and Fill, Groin Extension and Seawall Buikhead and Concrete Pler Shore Protection Shore Protection Shore Protection Shore Protection Shore Protection Retaining Walls Whole Project Shore Protec Bulkhead Julkhead **Uprap** Wharf North Half of Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard Northern Half of West Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard North Half of West Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard North Half of West Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard North Half of West Rodney French Boulevard and Poor Farm to City Pier of East Rodney French Boulevard North Half of West Rodney French Boulevard and Poor Farm to City Pler of East Rodney French Boulevard North of Pope Island to Hilman Street North of Pope Island - Hilman Street Rodney French Boulevard - West Rodney French Boulevard West Rodney French Boulevard erry Terminal State Pler State Pler State Pler State Pler State Pier State Pler F ÷ 6 Ξ 8 F 8 0 £ 6 ÷ 0 7 4 Θ w 18 4 ~ 4 MA - Division of Waterways
Proposed Sand Fill - Conin Extensions and Shore
Projection - West Beach Seawall - Clark Point New Bodford, MA - Prepared for DPW of MA Division of Waterways
Proposed Shore Protection - Rodney French
Boulevard - East and West - Prepared for DPW of Division of Waterways
Proposed Shore Profestion - Rodney French
Boulevard - East and West - Prepared for DPW of
MA - Division of Waterways
Proposed Sand Fill - Confin Extensions and Shore
Projected Sand Fill - Confin Extensions and Shore
Projection - West Beach Seawall - Clark Point New Bodford, MA - Prepared for DPW of MA Division of Waterways
Proposed Timber Wharf - Building and Dredging New Bedford Division of Waterways
Proposed Store Protestion - Rodiney French
Boulevard East and West. - Prepared for DPW of
MA.- Division of Waterways
Proposed Sand Fill: Coin Extensions and Shore
Protestion - West Beach Seawell - Clark PointNew Bedford, MA. - Prepared for DPW of MA.-Division of Weterways
Proposed Shore Protection Rodney French
Boulevard - East and West - Prepared for DPW of Division of Waterways Proposed Shore Protedion Rodney French Boulevard - East and West - Prepared for DPW of Protection - West Beach Seawall - Clark Point New Beddrout, MA - Prepared for DPW of MA Division of Wetenway
Preposed Shore Protection - Rodney French
Boulevard - East and West - Prepared for DPW of Propossed Bulkhead - Skate Pier - New Bedford Harbor Development Commission - New Bedford State Pier, Ferry Terminal, North Wharf Extension of Waterways Proposed Harbor Improvements - Acushnet River -New Bedford - Prepared for DPW of MA - Division Proposed Harbor Improvements - Acushnet River - New Bedford - Prepared for DPW of MA - Division Proposed Sand FIII - Groin Extensions and Shore Protection - West Beach Seawall - Clark Point -New Bedford, MA - Prepared for DPW of MA hposed Pier Alteration - State Pier - New Bedfor New Bedford State Pier - Proposed Pler Development Under Chapter 538 Acts of 1948 -Prepared for DPW of MA - Division of Waterways Proposed Pier Repairs - State Pier - New Bedford MA - Division of Waterways Proposed Sand Fill - Groin Extensions and Shore Protection - West Beach Seawell - Clark Point -New Bediord, MA - Prepared for DPW of MA -MA - Division of Waterways
Proposed Sand Fill - Grolin Extensions and Shore
Protection - West Beach Seawall - Clark Point New Bedford, MA - Propared for DPW of MA and Site Work New Bedford harbor Development Commission New Bedford State Pier - Cruise Ship Berthing November 1978 November 1978 November 1978 November 1978 Jecember 1965 November 1978 November 1978 November 1978 1958 January 1858 January 1858 January 1958 January 1958 October 1948 January 1958 January 1961 May 1946 January 1961 April 1939 May 2002 May 1999 April 1961 January New Bedford MA-DCR 1812 1812 2805 1812 2905 2905 2905 1812 2805 1812 2905 1812 2905 2286 2512 592 869 941 ¥ 2227 2227 e 048-009-000-286-200-DCR2A 049-011-000-030-100-DCR1A 049-011-000-030-100-DCR1B 049-011-000-030-200-DCR2B 049-011-000-030-300-DCR3A 049-011-000-030-300-DCR3B 049-011-000-030-400-DCR4A 049-013-000-055-100-DCR1B 049-011-000-030-200-DCR2A 049-011-000-030-400-DCR4B 049-013-000-055-100-DCR1A 048-013-000-055-200-DCR2A 049-013-000-055-200-DCR2B 049-047-000-203-100-DCR1A 049-047-000-203-100-DCR1B 049-047-000-203-100-DCR1C 049-047-000-203-100-DCR1D 049-047-000-203-100-DCR1F 049-047-000-203-100-DCR1G 049-066-000-165-100-DCR1A 049-066-000-165-200-DCR2A 049-009-000-286-200 049-011-000-030-100 049-011-000-030-100 049-011-000-030-300 049-011-000-030-400 049-011-000-030-200 049-011-000-030-200 048-011-000-030-300 048-011-000-030-400 049-013-000-055-100 048-013-000-055-100 049-047-000-203-100 049-047-000-203-100 049-047-000-203-100 049-086-000-165-200 049-013-000-055-200 049-013-000-055-200 049-047-000-203-100 049-047-000-203-100 049-047-000-203-100 049-047-000-203-100 049-068-000-165-100

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

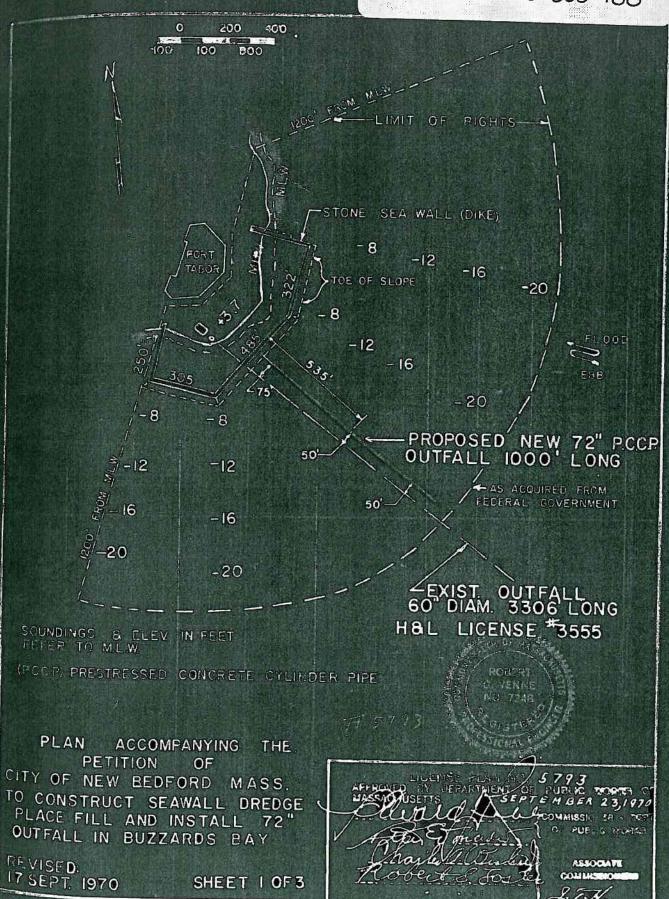
Bulkhead and Concrete Wall Steel Sheet Pile Bulkhead Seawalls and Riprap Seawall and Riprap Seawall and Ripnap FIII with Revetment Bulkhead with FIII Seawall and Fill FIII with Bulkhead Concrete Plea Steel Bulkhead Steel Bulkhead **3ulkhead** North Street and North Water Street State Pier on Mac Arthur Drive North of State Pier Steamship Pler Maxfield Street Costa Avenue Pearl Street Pearl Street Fort Tabor Fort Tabor Fort Tabor Fort Tabor Fort Tabor 4 _ 8 8 4 rain accurate Bay

Para Accompanying the Petition of City of New
Bedford, MA to Construct Seawall Dredge, Place
Fill and Install 172 Outland in Buzzaerde Bay
Fill an Accompanying Petition of City of New
Bedford to Construct and Maintain Drainage
Outlast as a Secondary Treatment Facility
Rehabilitate an Existing Effluent Outfail, Demoish
an Existing Wastewater Treatment Facility and Plan Accompanying Petition of City of New Bedford to Construct and Maintain Drainage Outles at a Secondary Treatment Facility Rehabilitate an Existing Effluent Outleil, Demoieh an Existing Wastewater Treatment Facility and Create a Park Located in the MAA Accompanying Perition of New Badford
Herbor Development Comm to Construct and
Maintain Boardwait, Timber Pler, Concrete Pler
and Piles at Steamship Pler, Acuture River, New
Bedford, MA
Plan Accompanying Petition of City of New
Bedford to Construct and Maintain Steat Bullichad,
Wood Fender System, Tie Rods and Deadmen,
Fender Piles, Solid Fill and To Remove Existing
Plers and Structures in New Bedford Harbor, New
Bedford, MA Plan Accompanying Petition of the City of New Bedford by the Harbor Development Commission to Construct Stee Sheet Bulkhead, Contraste Unloading Platform, Storm Drainage Systems, to Place Stolic Fli and Dredge in the Achushnel River, New Bedford Create a Park Located in the Plan Accompanying Palinon of City of New Bedford to Construct and Martiain Drainage Outlets at a Secondary Treatment Facility Rehability as a Estimate an Estimate Efficient Outlets an Estimate Accompany Treatment Facility and Estimate an Estimate Refused and Estimate Treatment Facility and Create a Park Located in the Plan Accompanying Petition of the City of New Bedford to Bull a Bulkhead and Concrete Wall on Relieving Platform and to Fill Solid and to Dredge in the Acushnet River at New Bedford, MA Plan Accompanying Petition of the City of New Bedford by Its Heteror Development Commission to Construct Steal Sheet Bukhead, Concrete Unloading Platform, Slorm Drainage Systems and to Place Solid Fill and Dradge in the Acushnet Plan Accompanying the Petition of the City of New Bedford, MA to Erect Bulkhead, Dredge and Place Fill in Buzzards Bey Bedford Harbor, New Bedford, MA Plan Accompanying Petillion of the City of New Bedford Harbor Development Commiesion for Plecoment of Solid FIII in the Acustnet River, New Plan Accompanying Petition of City of New Bedford to Construct and Maintain a Sheat Pile Bulkhead, Fill and Timbor Pile and Timbor Backadkalk in New Bedford Harbor, New Bedford, Plan Accompanying Petition of the City of New Bedford to Construct and Maintain a Steel Sheet Pile Bulkhead, Fender Piles, Storm Drainage, Placement of Solid Fill and Dredging in New River, New Bedford, MA ledford, MA September 1970 December 1967 August 1979 October 1962 March 1992 March 1992 July 1967 March 1992 June 1984 March 1977 March 1966 1979 June 1963 Date May, New Bedford 띰 띰 띰 ם 핌 핕 떮 띰 띰 ם 띰 DEP 떕 5783 2885 2895 2885 1472 5271 588 4637 4728 5309 5129 275 564 049-002-000-003-100-LIC1A 049-002-000-003-100-LIC1B 049-002-000-004-100-LIC1A 048-002-000-003-100-LIC1C 049-002-000-004-200-LIC2A 049-047-000-203-100-LIC1A 349-047-000-204-100-LIC1A 049-066-000-165-100-LIC1A 049-066-000-165-300-LIC3B 049-066-000-165-300-LIC3C 049-053-000-120-100-LJC1/ 049-066-000-165-200-LIC2A 049-066-000-165-300-LIC3A Document No 049-002-000-004-100 049-002-000-003-100 049-002-000-003-100 049-002-000-003-100 049-002-000-004-200 049-047-000-203-100 048-047-000-204-100 049-053-000-120-100 049-066-000-165-100 049-066-000-165-200 049-066-000-165-300 049-066-000-165-300 049-066-000-165-300 BCE Structure No

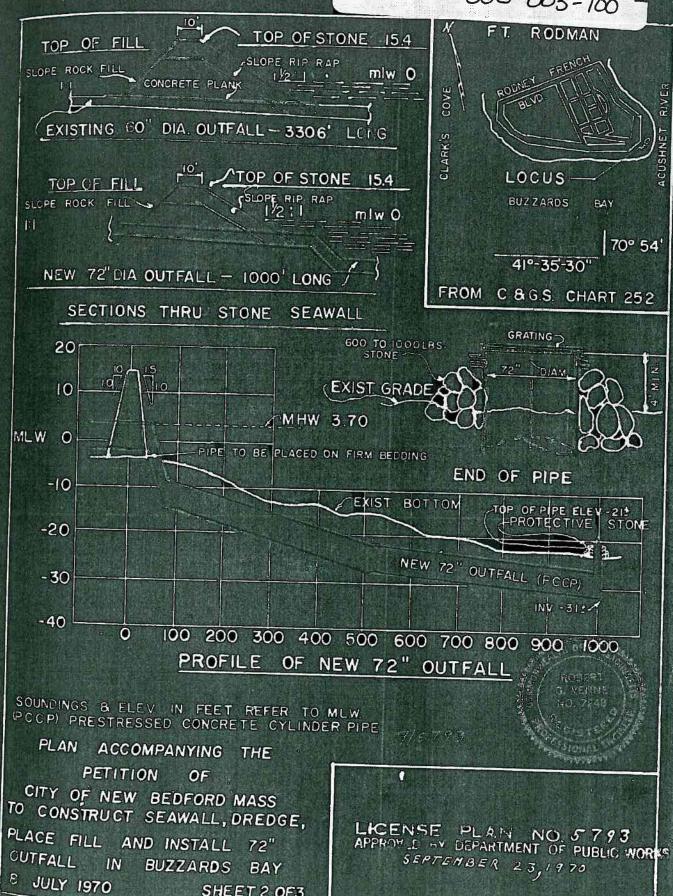




-049-002-000-003-100



049-002-000-003-100



SHEET 2 OF3

200 1200' FROM M.L.W. AS ACQUIRED FROM FEDERAL STONE SEAWALL (DIKE) FORT TAB OR 2 TO BE FILLED WITH DREDGED WAR TOE OF SLOPE LIMIT OF DREDGING (36' BELOW MLW) PROPOSED NEW 72" PC.CP.
OUTFALL 1000' LONG EXIST, 60" DIAM. OUTFALL 3306 LONG HAL LICEUSE "3555 LIMIT OF DREDGING LAS ACQUIRED FROM FEDERAL GOVERNMENT-PLAN ACCOMPANYING THE PETITION OF CITY OF NEW BEDFORD MASS.

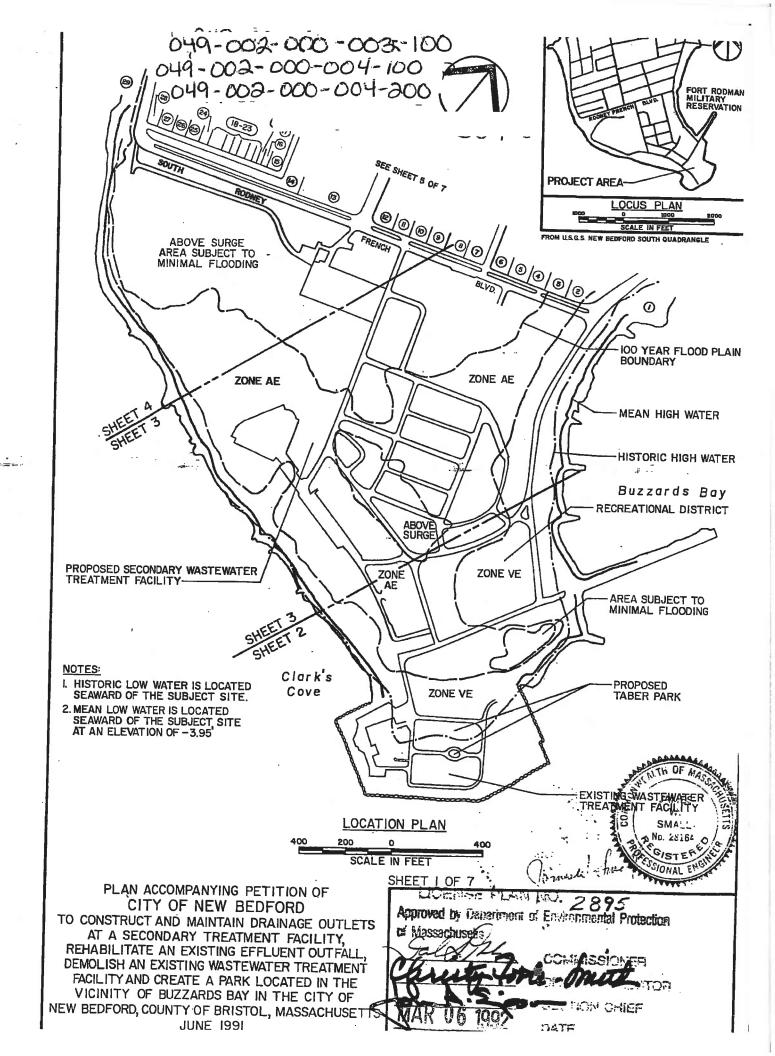
TO CONSTRUCT A SEAWALL, DREDGE LICENSE PLAN MO: 5793 PPROVED BY DEPARTMENT OF PUBLIC HICKORY SEPTEMBER 231970

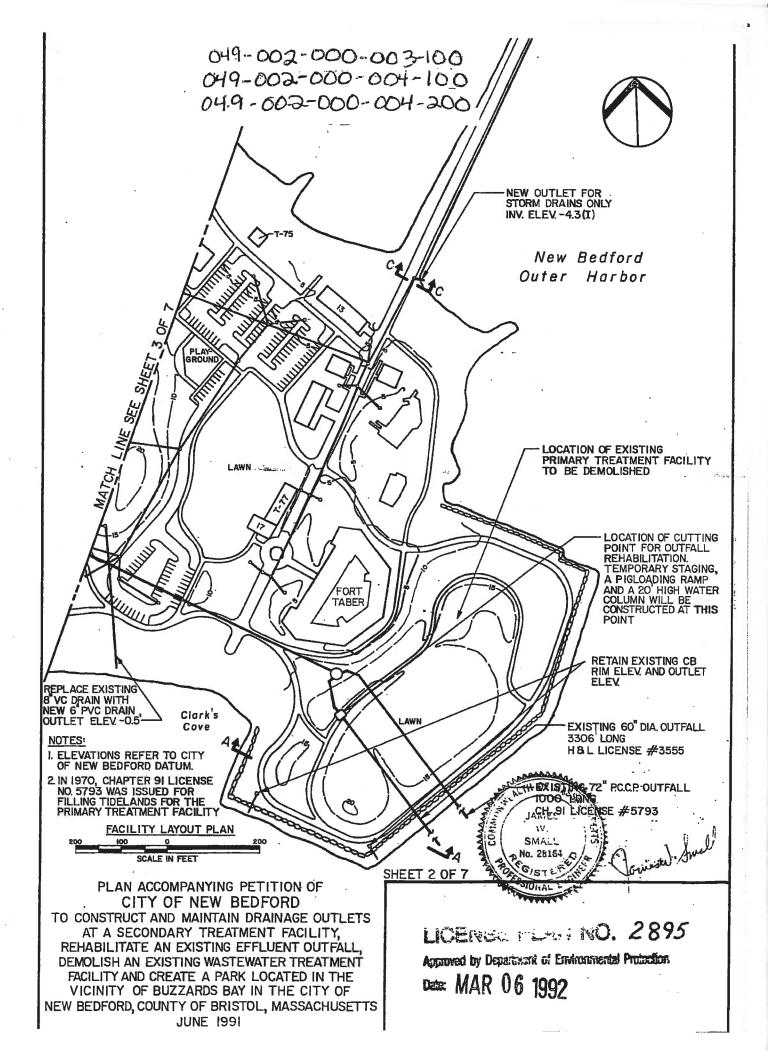
REVISED: 17 SEPT. 1970

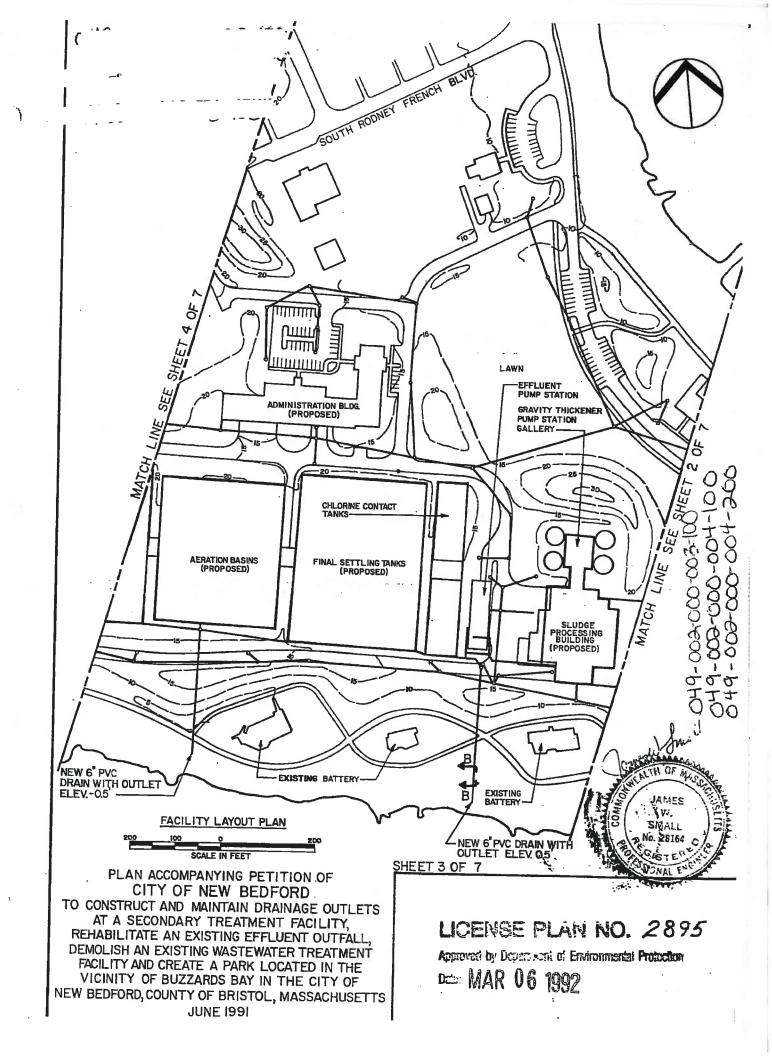
PLACE FILL AND INSTALL A 72"

OUTFALL IN BUZZARDS BAY

SHEET 3 OF 3







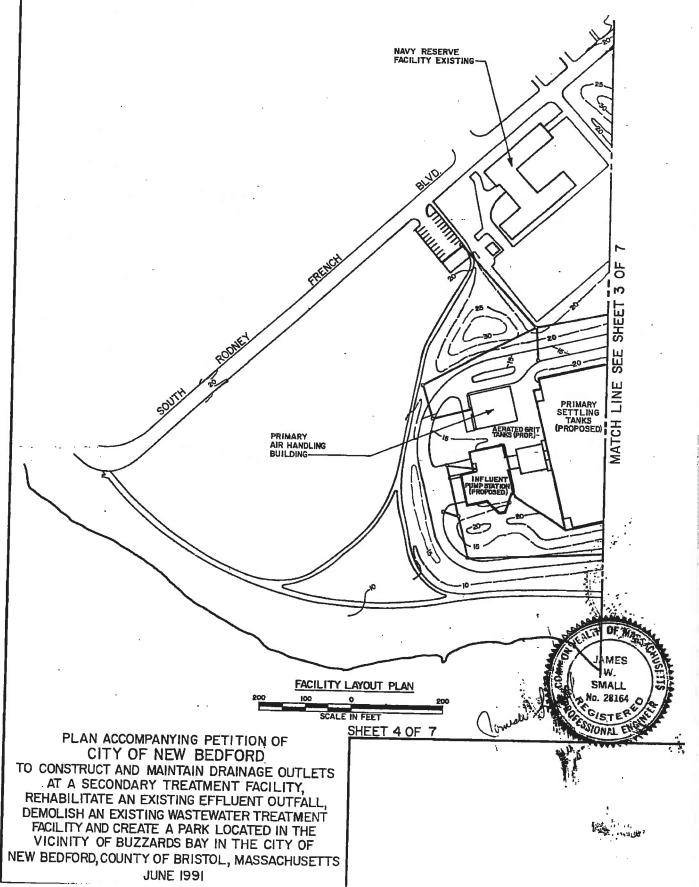
LICENSE FLAN NO. 2895 049-000-003-100

Approved by Department of Environmental Protection

DZ: MAR 06 1992

049-002-000-004-100





SITE ABUTTERS CITY OF NEW BEDFORD

WASTEWATER TREATMENT FACILITY

AND TABER PARK 049-002-000-003-100

1, 2	CITY OF NEW BEDFORD 049-000-004-1			
3	DENNIS K. AND FAYE E. SILVA, 979 SOUTH RODNEY FRENCH BLVD.			
4				
5	MARY R FRAGA, 963 SOUTH RODNEY FRENCH BLVD.			
	JOAQUIM R. AND SANDRA HARRISON, 951 SOUTH RODNEY FRENCH BLVD.			
6	MANUEL V. AND BELLA GOMES FERREIRA, 937 SOUTH RODNEY FRENCH BLVD.			
7 ·	ARTHUR AND DOROTHY ST PIERRE, 861 SOUTH RODNEY FRENCH BLVD.			
8	ESTELLA M. BINNING, 875 SOUTH RODNEY FRENCH BLVD.			
9	MARGUERITE BRUNELLE, 889 SOUTH RODNEY FRENCH BLVD.			
. 01	MAURICE J. AND JEAN METCALF, 903 SOUTH RODNEY FRENCH BLVD.			
11	THOMAS A. AND NATALIE HOLDEN, 917 SOUTH RODNEY FRENCH BLVD.			
12	EDMOND D. PIMENTAL, 30 BROCK AVENUE			
13	J. GERARD AND LILLIAN B. BREEN, 15 BROCK AVENUE			
14	FERNANDO M. AND FATIMA C. PEIXOTO, 4 POINT STREET			
15, 16	JOHN F AND BEVERLY SANTOS, 161 BAYVIEW AVENUE			
17	RAYMOND B. AND DIANNE J. RODERICK, 165 SOUTH RODNEY FRENCH BLVD.			
18-23	FREDERICK S. AND DORIS T. SZELA, 171 BAYVIEW AVENUE			
24	THOMAS D. PERRY AND COROL E. MANLEY, 185 BAYVIEW AVENUE			
25	JEFFERY AND GAYLE RHODES, 189 BAYVIEW AVENUE			
26	DIANA B. DUARTE, 193 BAYVIEW AVENUE			
27	THOMAS KELLEHER, 199 BAYVIEW AVENUE			
28	RAYMOND AND JANE OLIVER, 672 SOUTH RODNEY FRENCH BLVD.			
29	CITY OF NEW BEDFORD			
	and the second s			

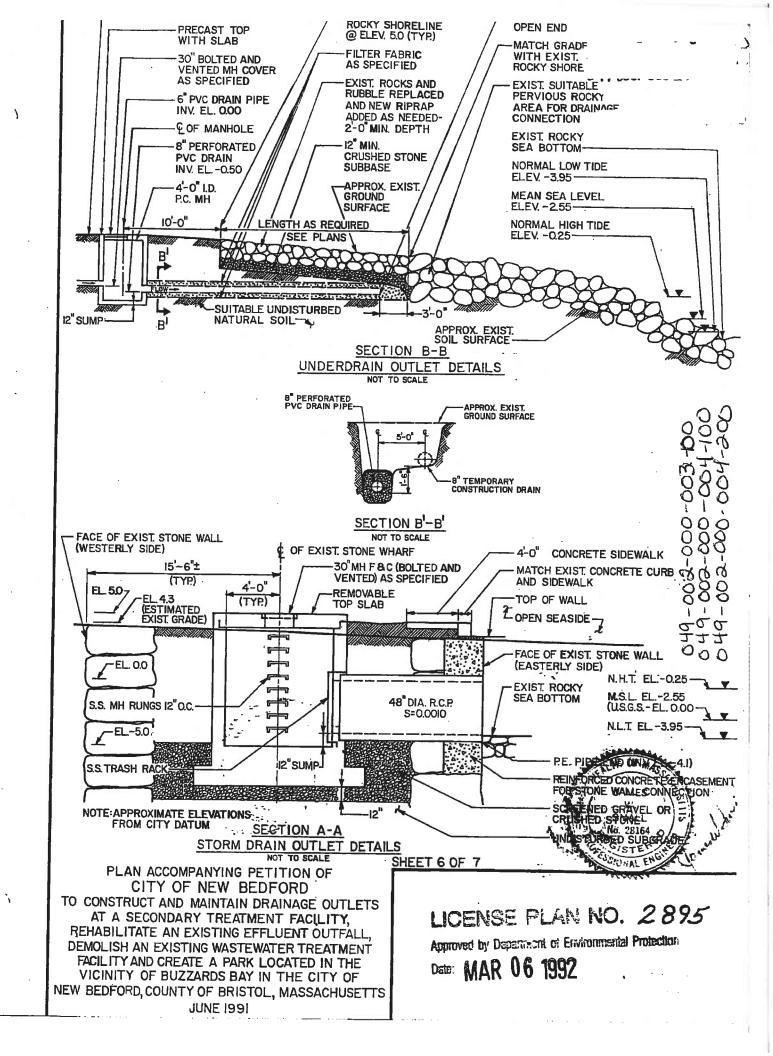
PLAN ACCOMPANYING PETITION OF
CITY OF NEW BEDFORD
TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS
AT A SECONDARY TREATMENT FACILITY,
REHABILITATE AN EXISTING EFFLUENT OUTFALL,
DEMOLISH AN EXISTING WASTEWATER TREATMENT
FACILITY AND CREATE A PARK LOCATED IN THE
VICINITY OF BUZZARDS BAY IN THE CITY OF
NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS
JUNF 1991

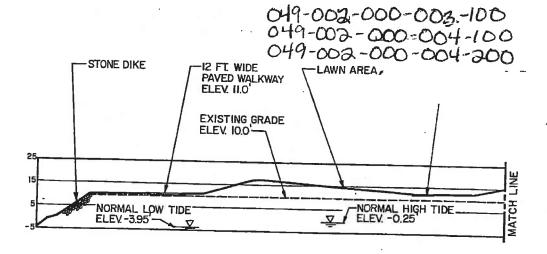
SHEET 5 OF 7

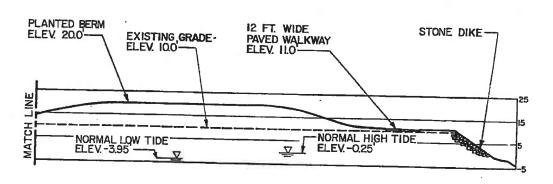
LICENSE PLAN NO. 2895

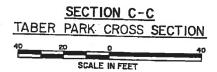
Approved by Dispers cont of Environmental Protection

Date: MAR 06 1992

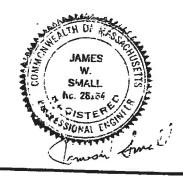








NOTE: APPROXIMATELY 170,000 CY OF MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE SECONDARY WASTEWATER TREATMENT FACILITY WILL BE USED TO REGRADE TABER PARK.



PLAN ACCOMPANYING PETITION OF CITY OF NEW BEDFORD

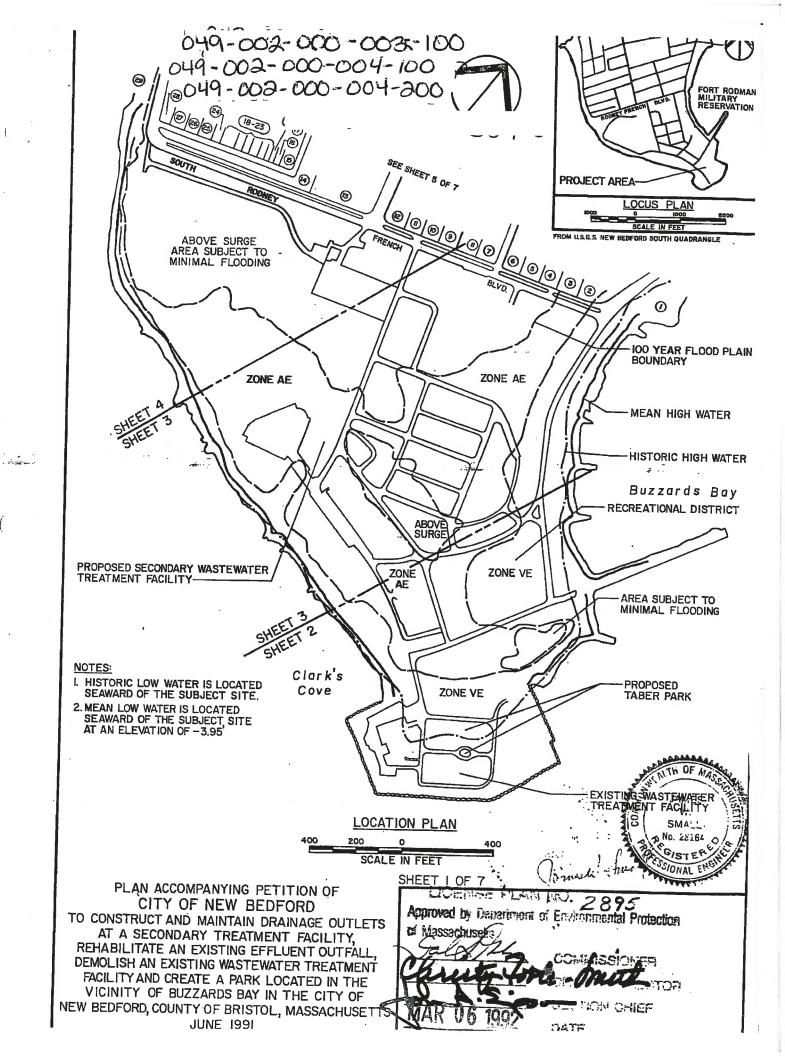
TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS
AT A SECONDARY TREATMENT FACILITY,
REHABILITATE AN EXISTING EFFLUENT OUTFALL,
DEMOLISH AN EXISTING WASTEWATER TREATMENT
FACILITY AND CREATE A PARK LOCATED IN THE
VICINITY OF BUZZARDS BAY IN THE CITY OF
NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS
JUNE 1991

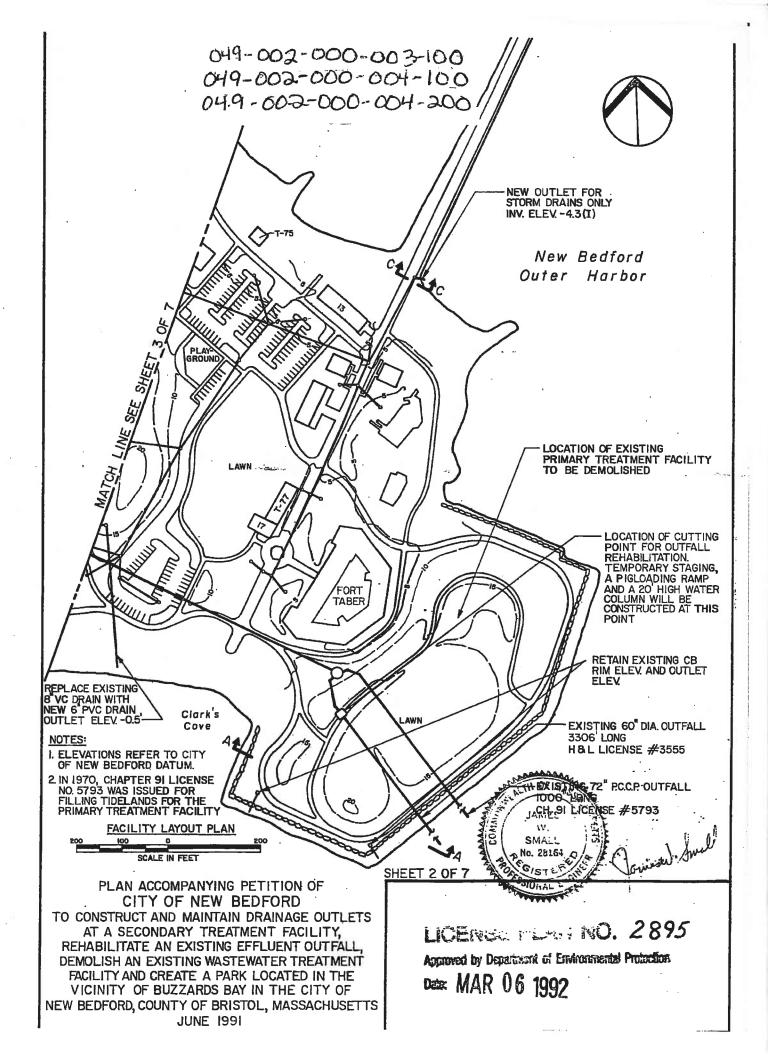
SHEET 7 OF 7

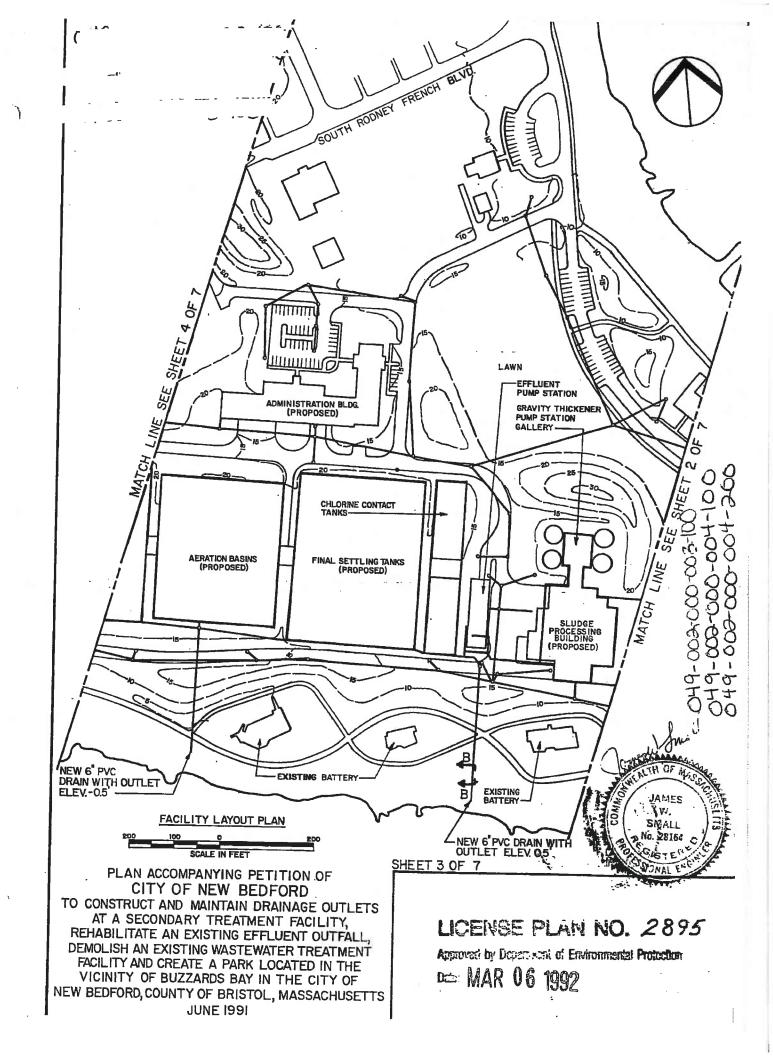
LICENSE PLAN NO. 2895

Appended by Decement of Environmental Protection

MAR 06 1992







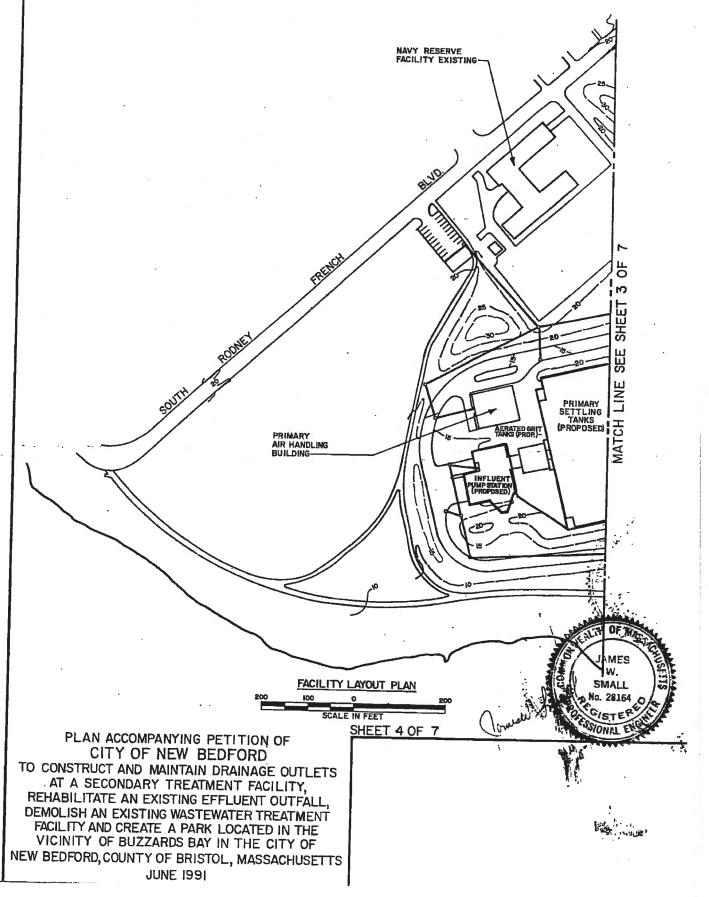
LICENSE FLAN NO. 2895 049-009-000-003-100

Approved by Department of Environmental Protection

Dets: MAR 06 1992

049-002-000-004-100





SITE ABUTTERS CITY OF NEW BEDFORD

WASTEWATER TREATMENT FACILITY

AND TABER PARK 049-002-000-003-100

i, 2	CITY OF NEW BEDFORD 049-000-004-1		
3	DENNIS K. AND FAYE E. SILVA, 979 SOUTH RODNEY FRENCH BLVD.		
4	MARY R FRAGA, 963 SOUTH RODNEY FRENCH BLVD.		
5	JOAQUIM R. AND SANDRA HARRISON, 951 SOUTH RODNEY FRENCH BLVD.		
6	MANUEL V. AND BELLA GOMES FERREIRA, 937 SOUTH RODNEY FRENCH BLVD.		
7 ·	ARTHUR AND DOROTHY ST. PIERRE, 861 SOUTH RODNEY FRENCH BLVD.		
8	ESTELLA M. BINNING, 875 SOUTH RODNEY FRENCH BLVD.		
9	MARGUERITE BRUNELLE, 889 SOUTH RODNEY FRENCH BLVD.		
10	MAURICE J. AND JEAN METCALF, 903 SOUTH RODNEY FRENCH BLVD.		
П	THOMAS A. AND NATALIE HOLDEN, 917 SOUTH RODNEY FRENCH BLVD.		
12	EDMOND D. PIMENTAL, 30 BROCK AVENUE		
13	J. GERARD AND LILLIAN B. BREEN, 15 BROCK AVENUE		
14	FERNANDO M. AND FATIMA C. PEIXOTO, 4 POINT STREET		
15, 16	JOHN F AND BEVERLY SANTOS, 161 BAYVIEW AVENUE		
17	RAYMOND B. AND DIANNE J. RODERICK, 165 SOUTH RODNEY FRENCH BLVD.		
18-23	FREDERICK'S. AND DORIS T. SZELA, 171 BAYVIEW AVENUE		
24	THOMAS D PERRY AND COROL E. MANLEY, 185 BAYVIEW AVENUE		
25	JEFFERY AND GAYLE RHODES, 189 BAYVIEW AVENUE		
26	DIANA B. DUARTE, 193 BAYVIEW AVENUE		
27	THOMAS KELLEHER, 199 BAYVIEW AVENUE		

PLAN ACCOMPANYING PETITION OF CITY OF NEW BEDFORD

TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS AT A SECONDARY TREATMENT FACILITY, REHABILITATE AN EXISTING EFFLUENT OUTFALL, DEMOLISH AN EXISTING WASTEWATER TREATMENT FACILITY AND CREATE A PARK LOCATED IN THE VICINITY OF BUZZARDS BAY IN THE CITY OF NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS JUNF 1991

28

29

SHEET 5 OF 7

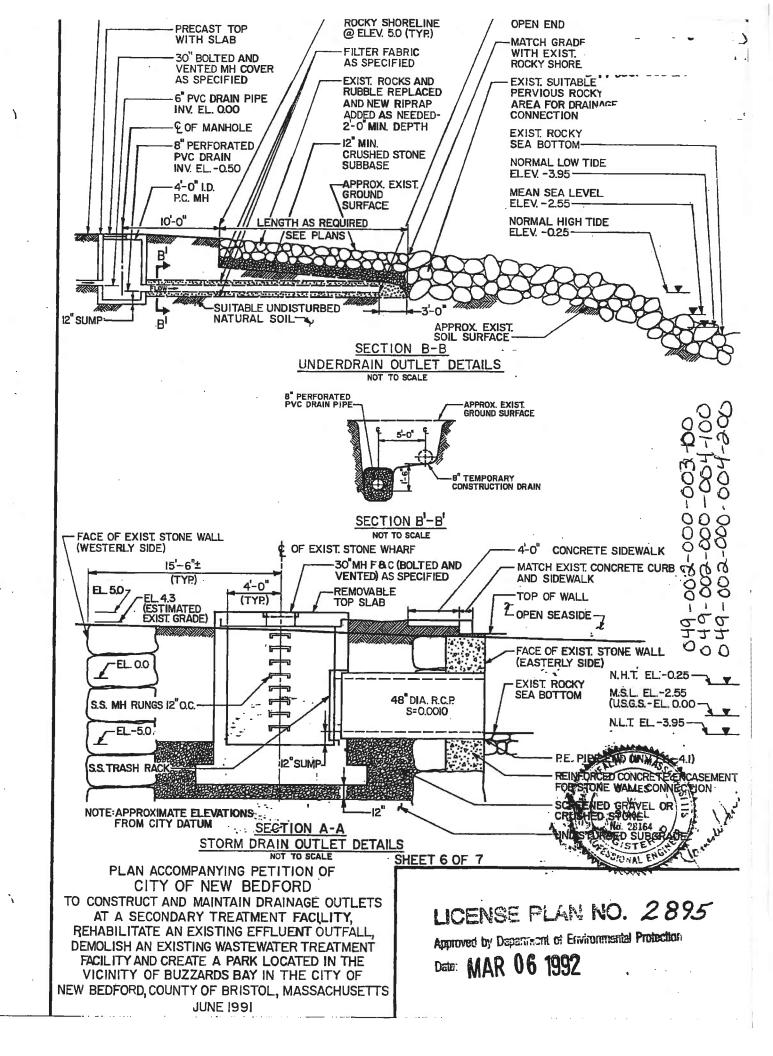
RAYMOND AND JANE OLIVER, 672 SOUTH RODNEY FRENCH BLVD.

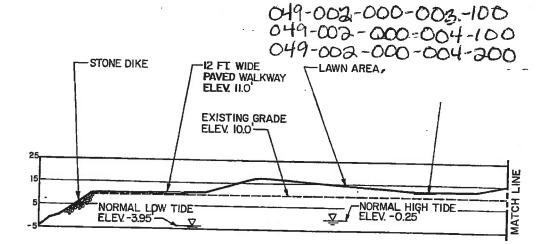
NEW BEDFORD

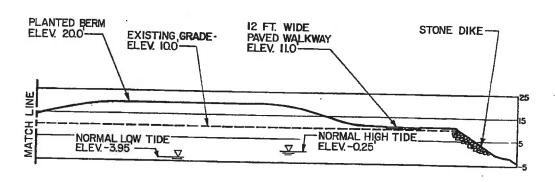
LICENSE PLAN NO. 2895

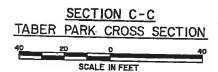
Approved by Depart and of Environmental Protection

Det: MAR 06 1992

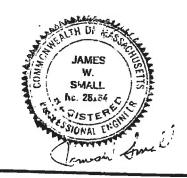








NOTE: APPROXIMATELY 170,000 CY OF MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE SECONDARY WASTEWATER TREATMENT FACILITY WILL BE USED TO REGRADE TABER PARK.



PLAN ACCOMPANYING PETITION OF CITY OF NEW BEDFORD TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS AT A SECONDARY TREATMENT FACILITY, REHABILITATE AN EXISTING FEEL LIENT OUTFALL

AT A SECONDARY TREATMENT FACILITY,
REHABILITATE AN EXISTING EFFLUENT OUTFALL,
DEMOLISH AN EXISTING WASTEWATER TREATMENT
FACILITY AND CREATE A PARK LOCATED IN THE
VICINITY OF BUZZARDS BAY IN THE CITY OF
NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS

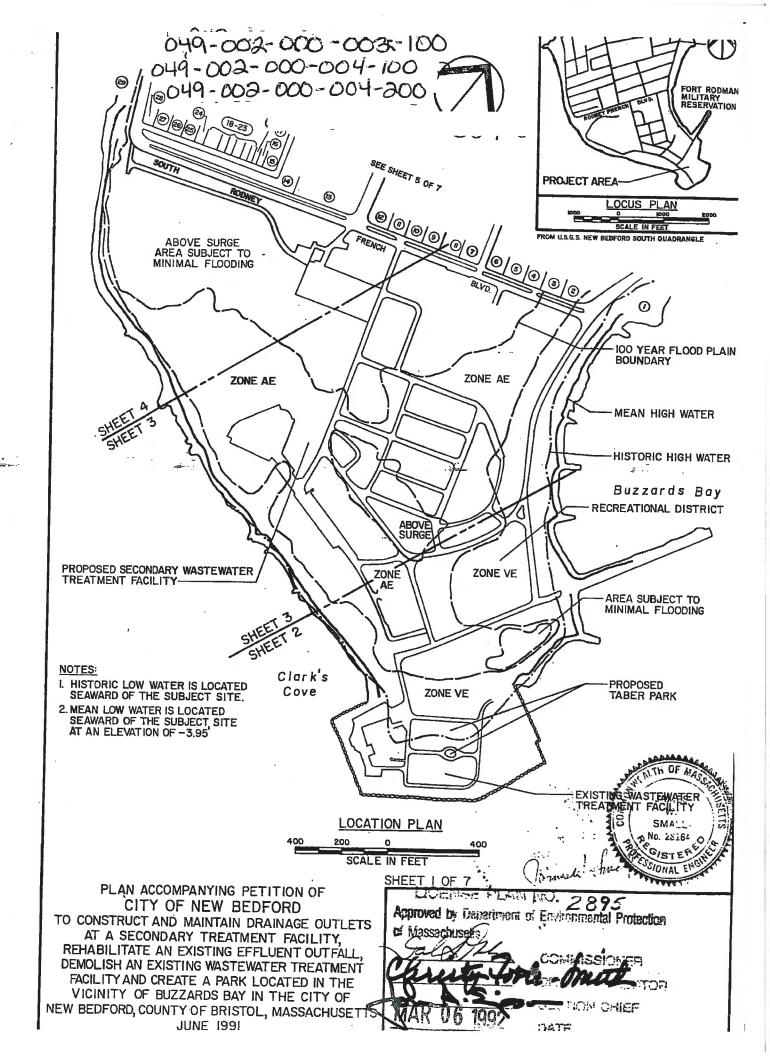
JUNE 1991

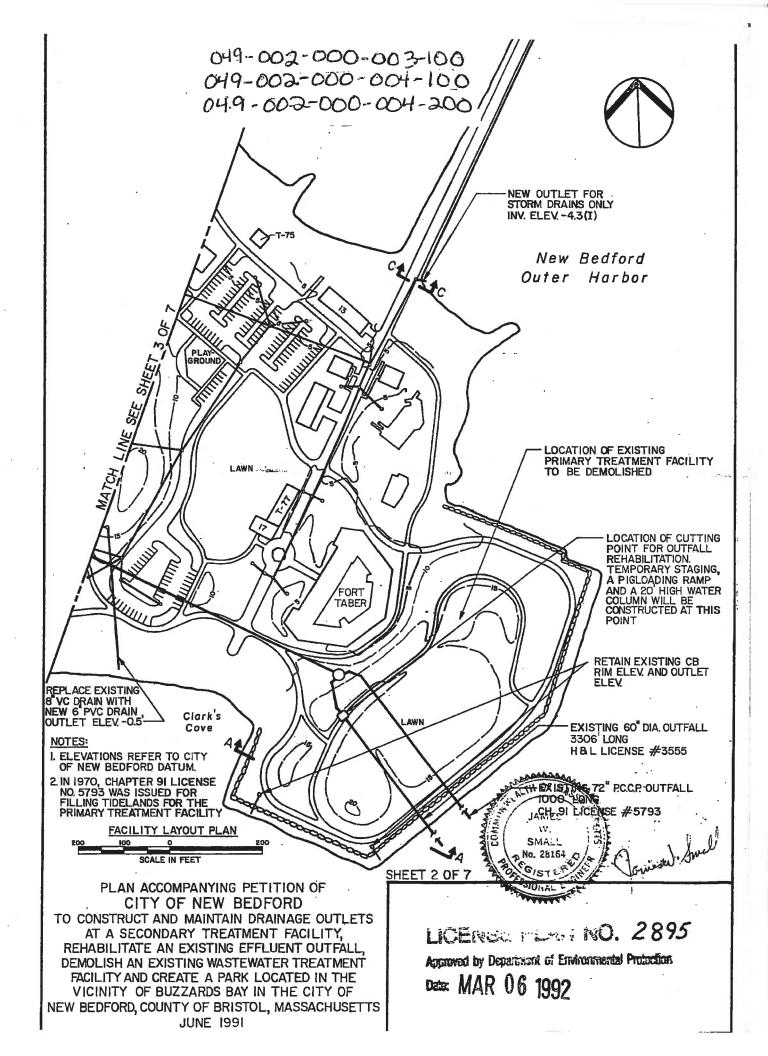
SHEET 7 OF 7

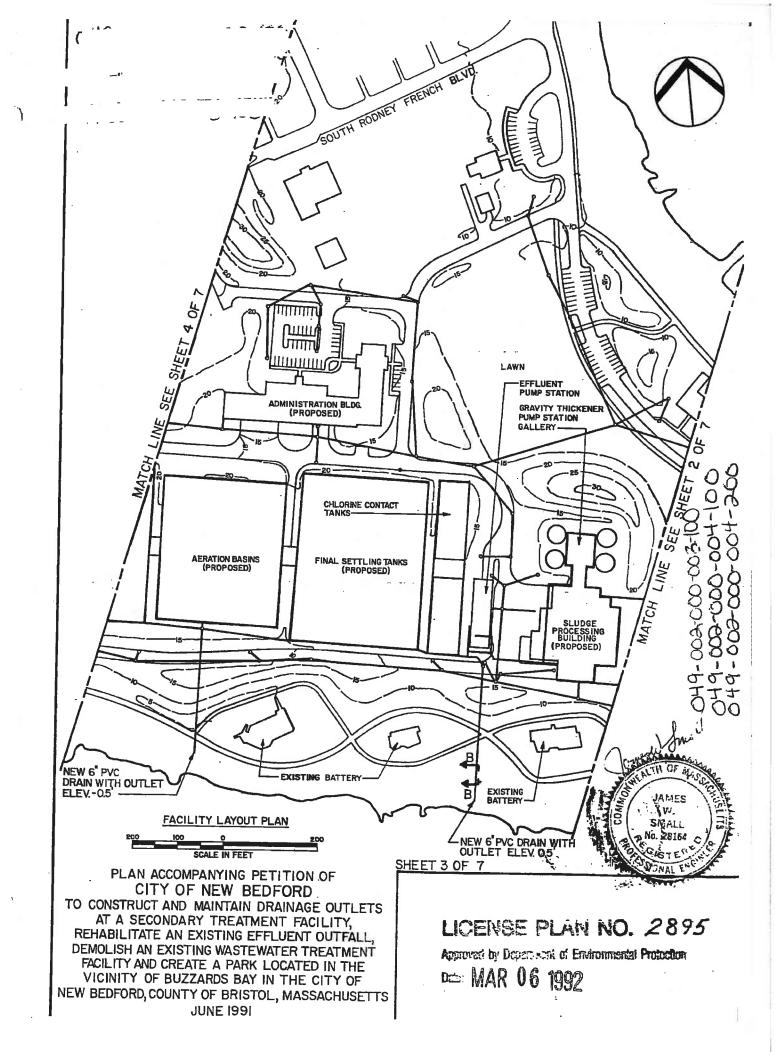
LICENSE PLAN NO. 2895

Appended by Decement of Environmental Protection

MAR 06 1992







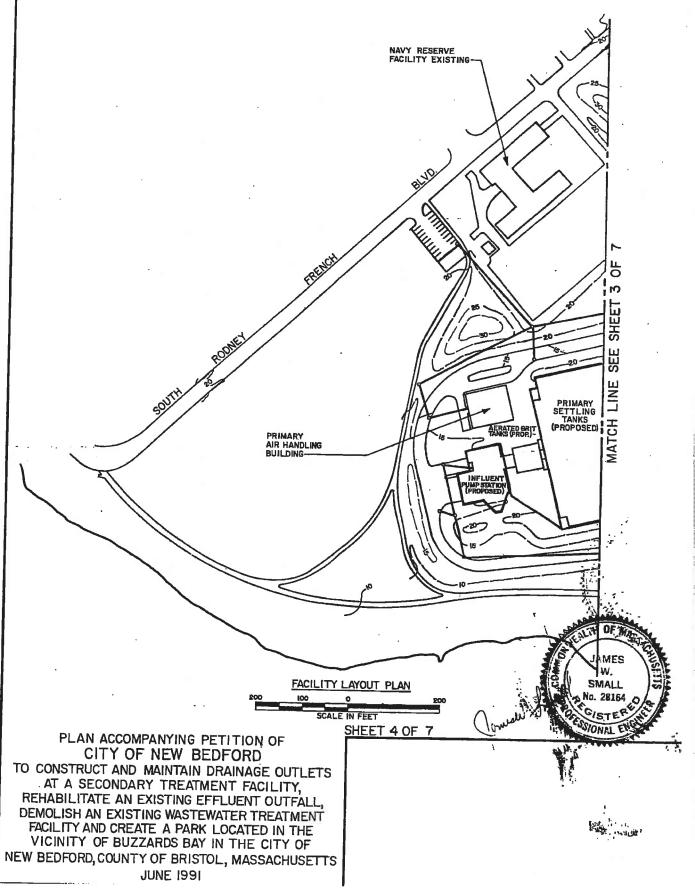
LICENSE FLAN NO. 2895 049-009-000-003-100

Approved by Department of Environmental Protection

MAR 06 1992

049-002-000-004-100





SITE ABUTTERS CITY OF NEW BEDFORD

WASTEWATER TREATMENT FACILITY

AND TABER PARK 049-002-000-003-100

		0110 000 000 001
1, 2	CITY OF NEW BEDFORD	049-002-000-004-1
3	DENNIS K. AND FAYE E. SILVA, 979 SO	UTH RODNEY FRENCH BLVD.
4	MARY R. FRAGA, 963 SOUTH RODNEY FF	RENCH BLVD.
5	JOAQUIM R. AND SANDRA HARRISON, 951	SOUTH RODNEY FRENCH BLVD.
6	MANUEL V. AND BELLA GOMES FERREIRA, 9	37 SOUTH RODNEY FRENCH BLVD.
7 ·	ARTHUR AND DOROTHY ST. PIERRE, 861 SOU	TH RODNEY FRENCH BLVD.
8	ESTELLA M. BINNING, 875 SOUTH RODNEY	
9	MARGUERITE BRUNELLE, 889 SOUTH RODN	IEY FRENCH BLVD.
10 .	MAURICE J. AND JEAN METCALF, 903 SOUT	TH RÖDNEY FRENCH BLVD.
11	THOMAS A. AND NATALIE HOLDEN, 917 SOL	JTH RODNEY FRENCH BLVD.
12	EDMOND D. PIMENTAL, 30 BROCK AVENU	
13	J GERARD AND LILLIAN B BREEN, 15 BRO	CK AVENUE
14	FERNANDO M. AND FATIMA C. PEIXOTO, 4 P	OINT STREET
15, 16	JOHN F AND BEVERLY SANTOS, 161 BAYV	IEW AVENUE
17	RAYMOND B. AND DIANNE J. RODERICK, 165	SOUTH RODNEY FRENCH BLVD.
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28	RAYMOND AND JANE OLIVER, 672 SOUTH R	ODNEY FRENCH BLVD.
29	CIP OF NEW BEDFORD	

PLAN ACCOMPANYING PETITION OF
CITY OF NEW BEDFORD

TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS
AT A SECONDARY TREATMENT FACILITY,
REHABILITATE AN EXISTING EFFLUENT OUTFALL,
DEMOLISH AN EXISTING WASTEWATER TREATMENT
FACILITY AND CREATE A PARK LOCATED IN THE
VICINITY OF BUZZARDS BAY IN THE CITY OF
NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS

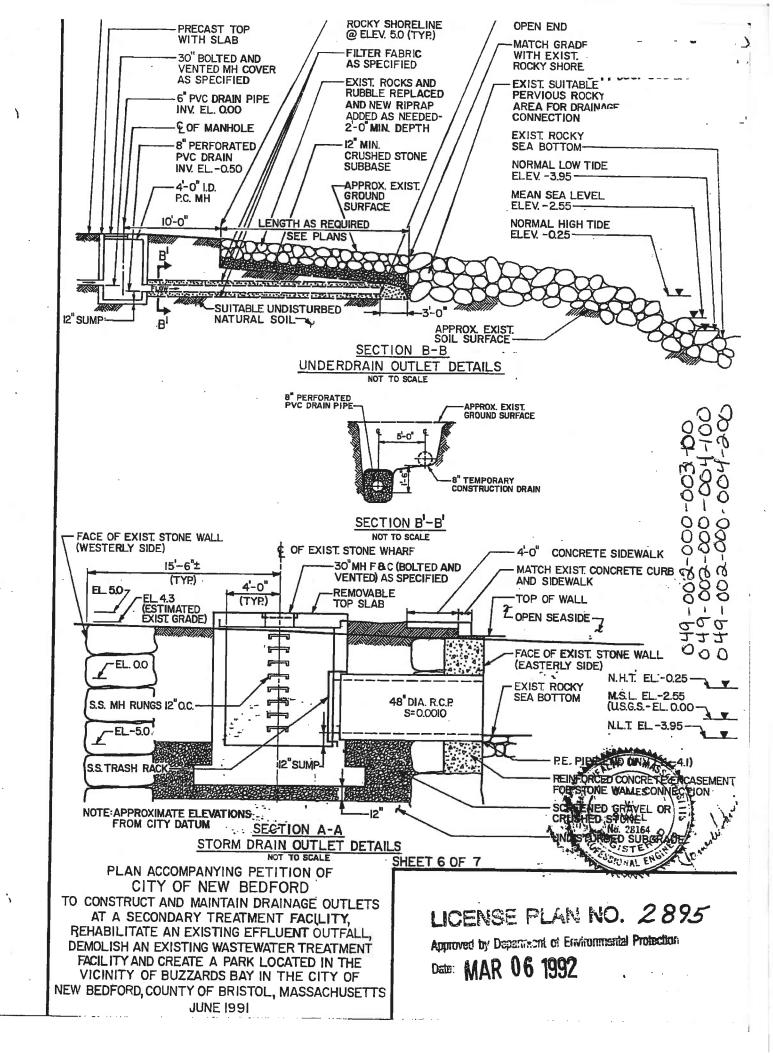
JUNF 1991

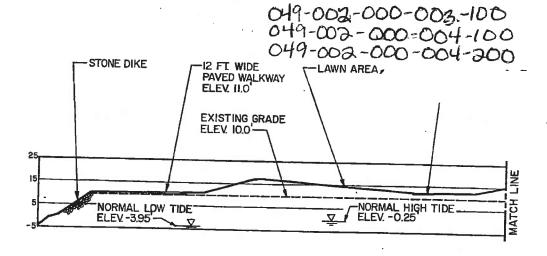
SHEET 5 OF 7

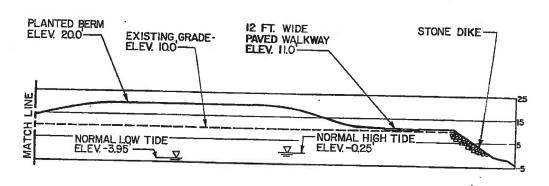
LICENSE PLAN NO. 2895

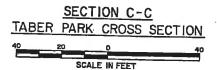
Approved by Dispert and of Environmental Protection

DES MAR 06 1992

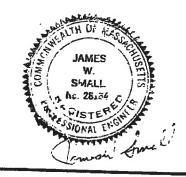








NOTE: APPROXIMATELY 170,000 CY OF MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE SECONDARY WASTEWATER TREATMENT FACILITY WILL BE USED TO REGRADE TABER PARK.



PLAN ACCOMPANYING PETITION OF CITY OF NEW BEDFORD

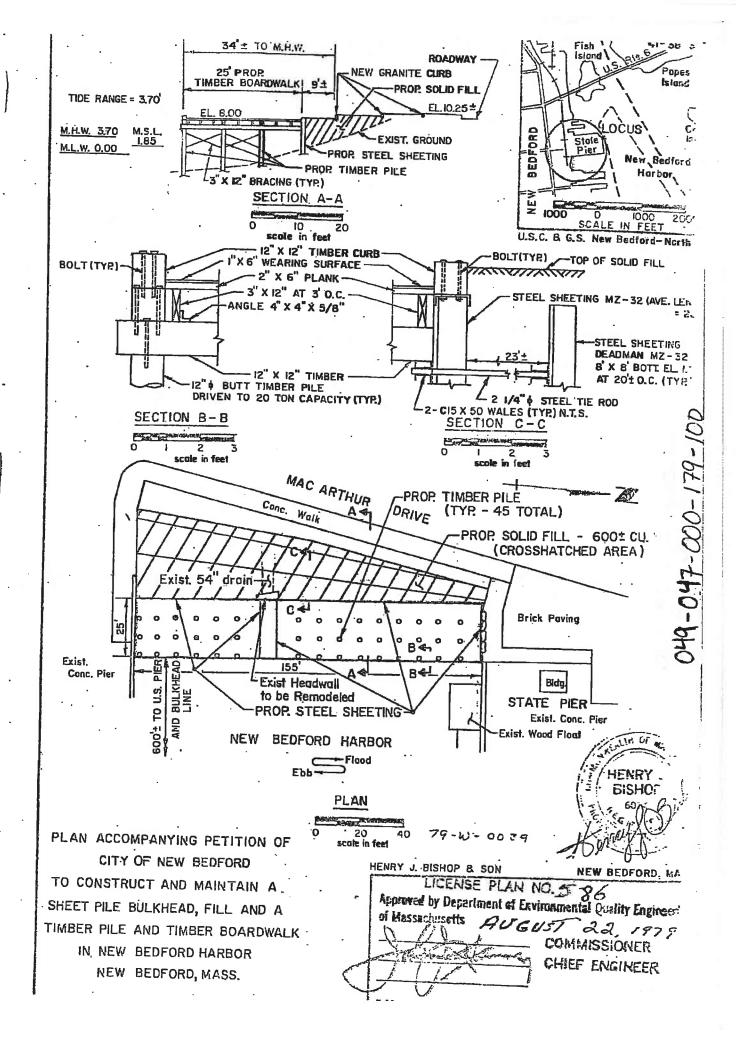
TO CONSTRUCT AND MAINTAIN DRAINAGE OUTLETS
AT A SECONDARY TREATMENT FACILITY,
REHABILITATE AN EXISTING EFFLUENT OUTFALL,
DEMOLISH AN EXISTING WASTEWATER TREATMENT
FACILITY AND CREATE A PARK LOCATED IN THE
VICINITY OF BUZZARDS BAY IN THE CITY OF
NEW BEDFORD, COUNTY OF BRISTOL, MASSACHUSETTS
JUNE 1991

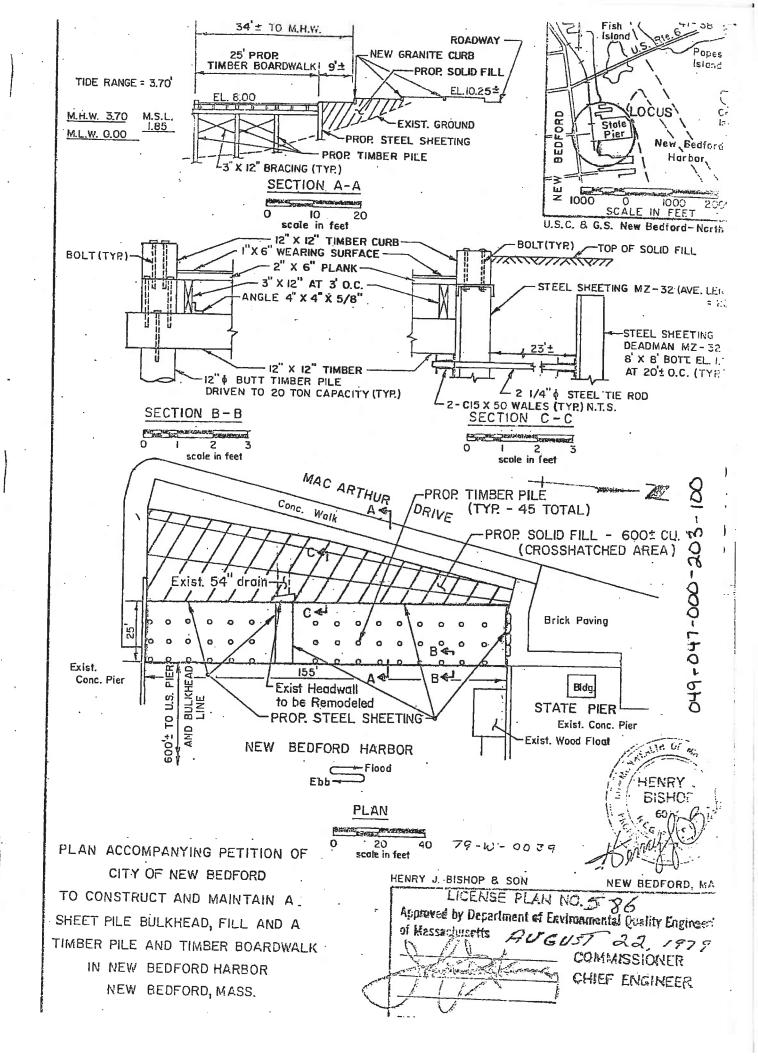
SHEET 7 OF 7

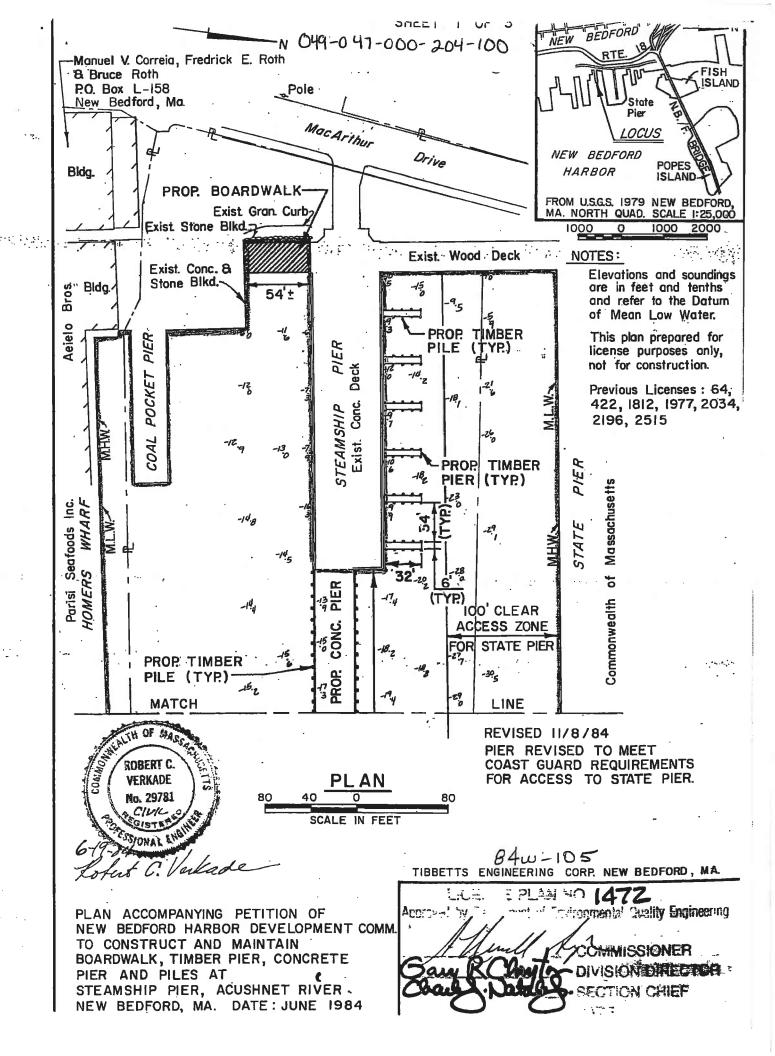
LICENSE PLAN NO. 2895

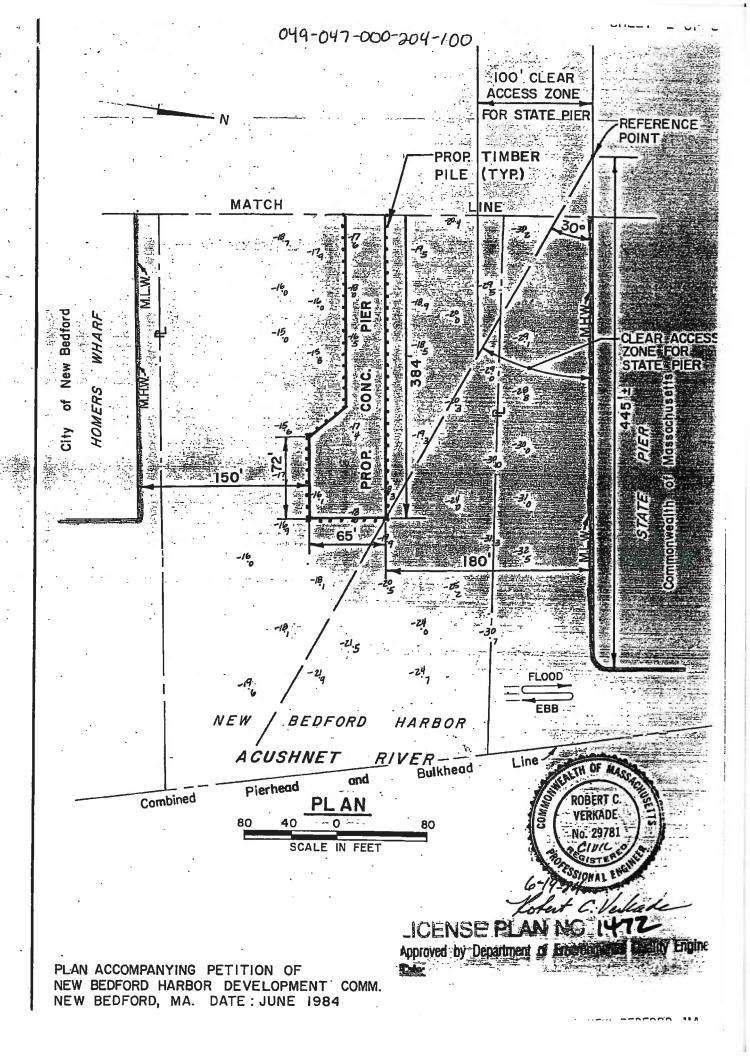
Appended by Decement of Environmental Protection

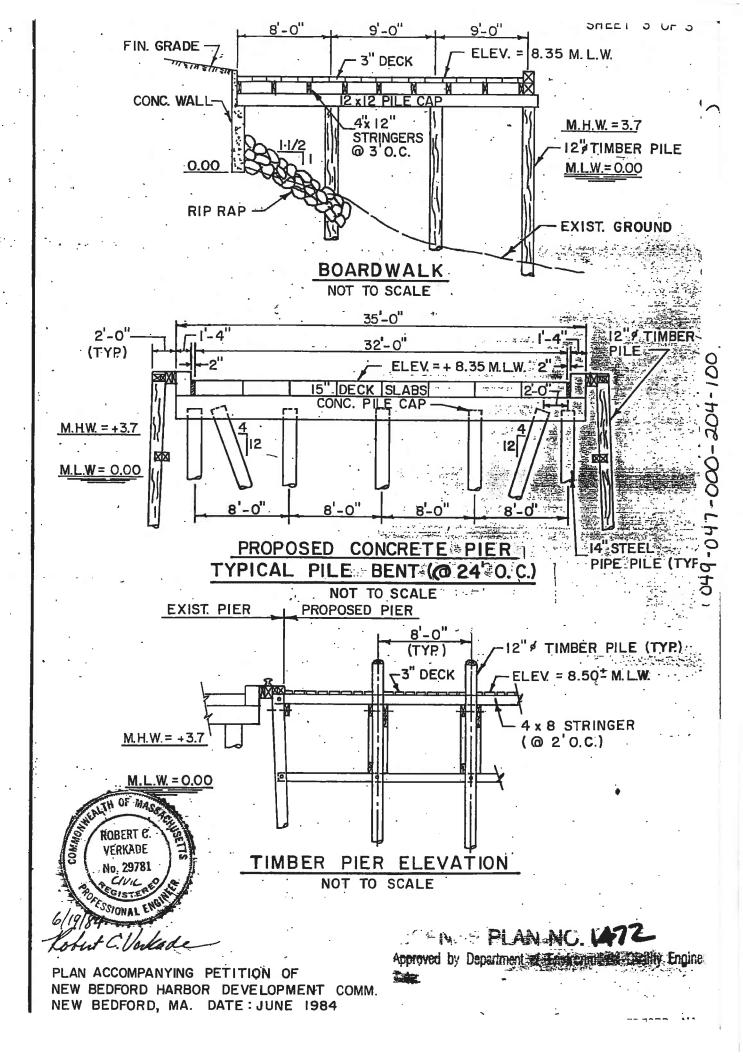
MAR 06 1992

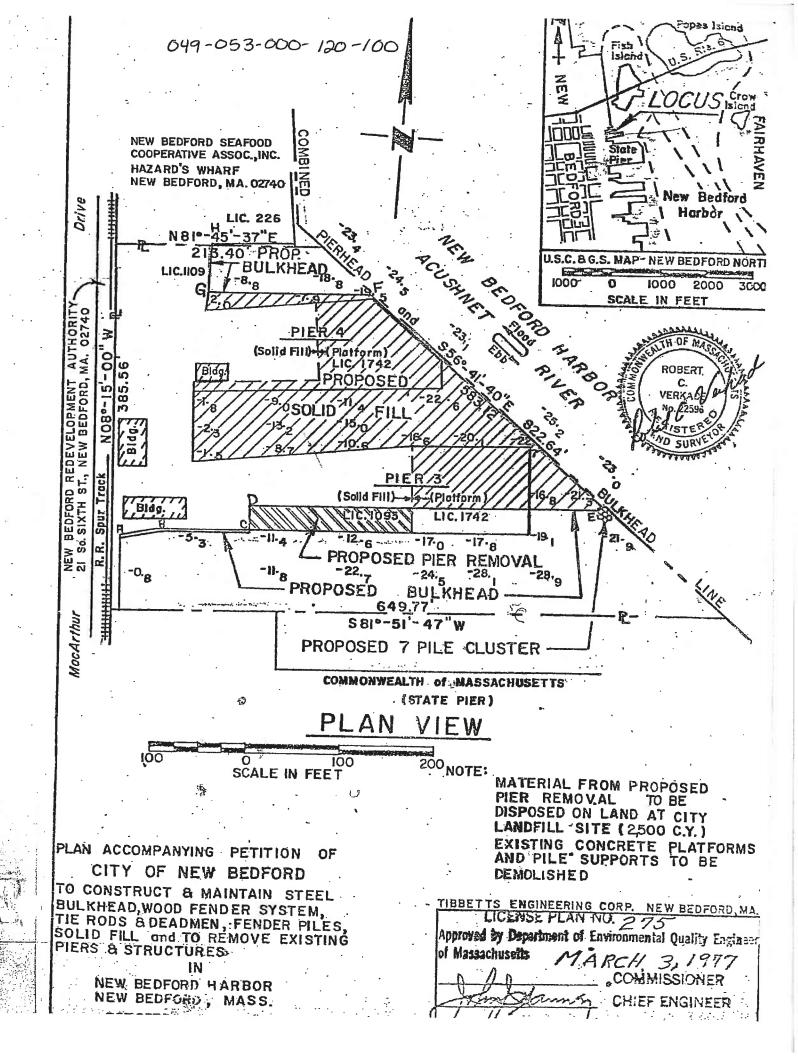


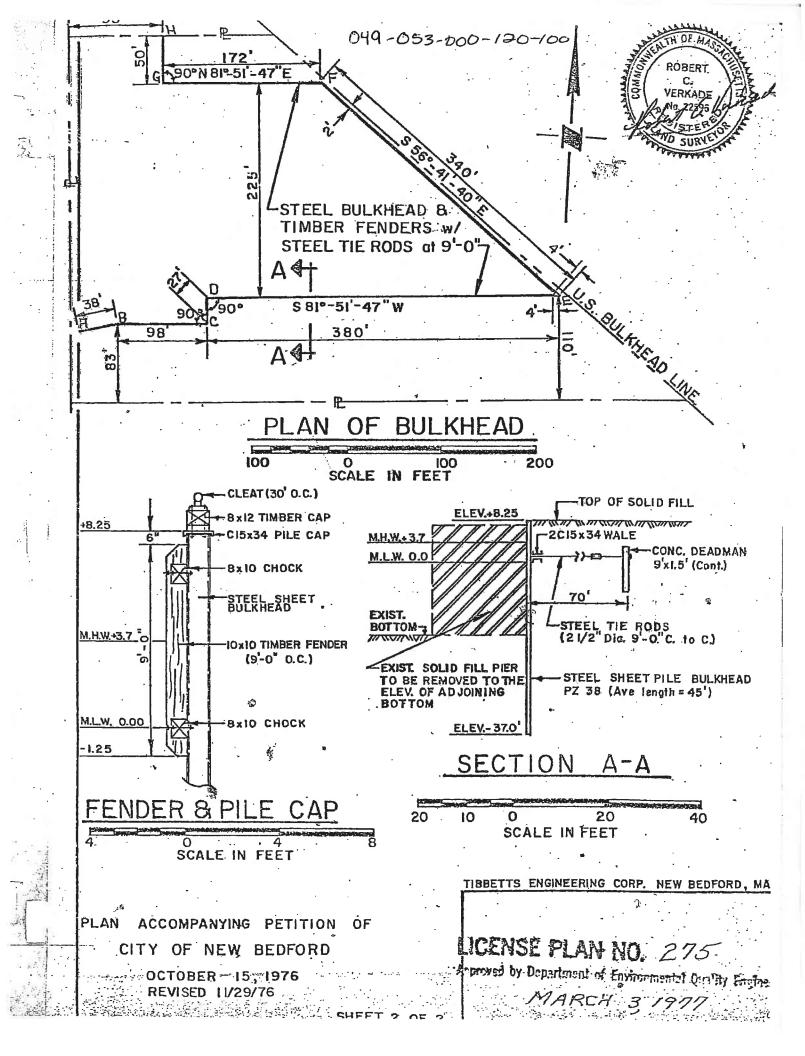


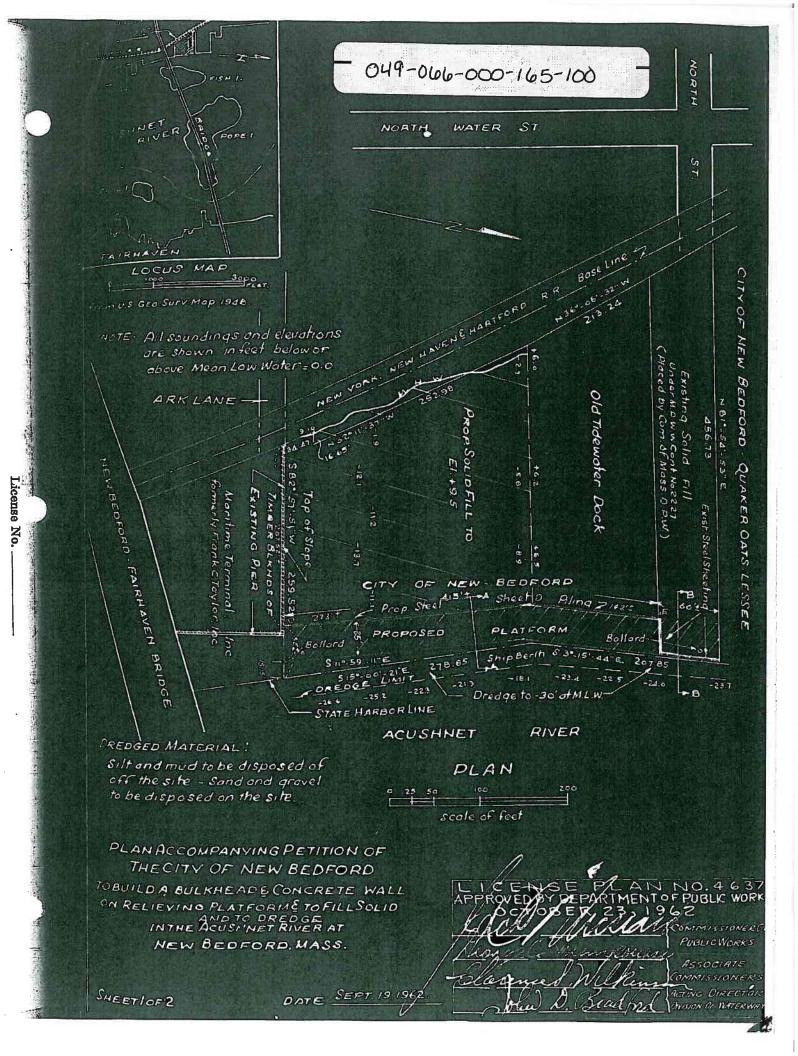


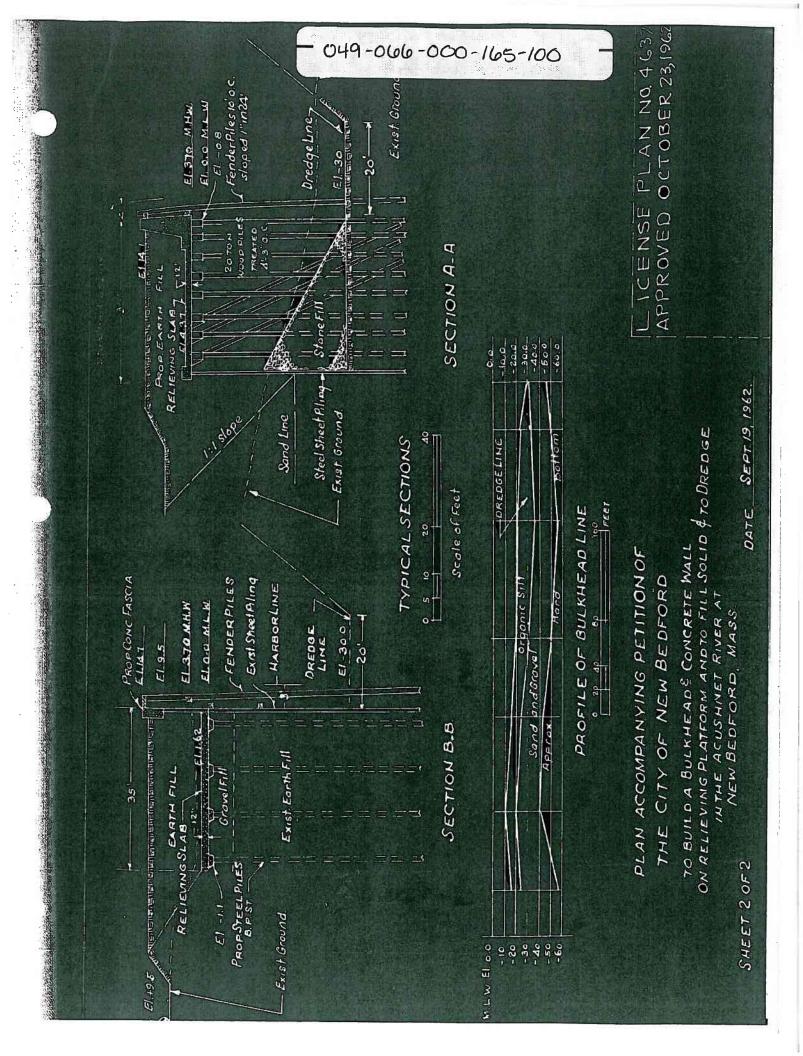


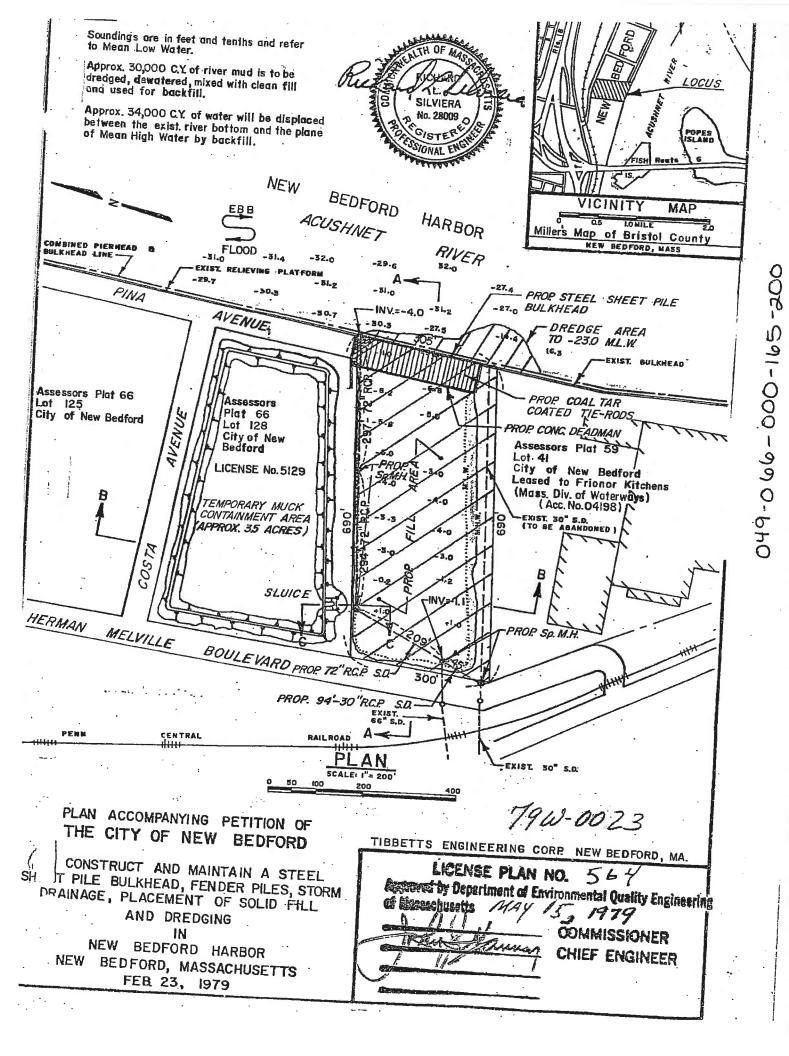


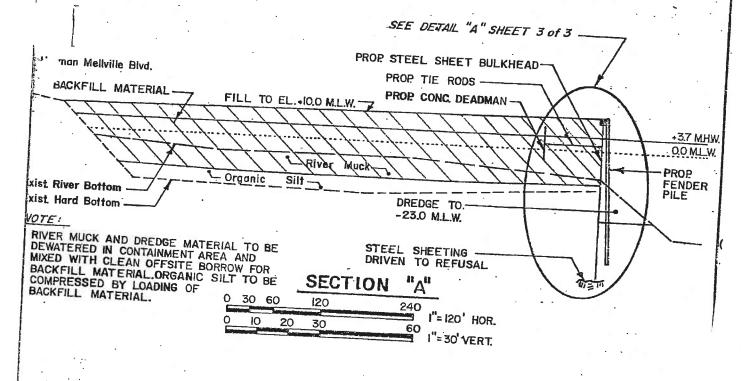


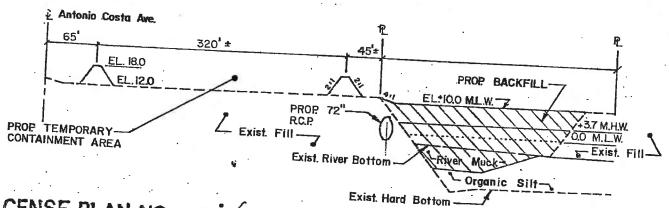












CENSE PLAN NO. 564

woved by Department of Environmental Quality Engineering

MAY 15, 1979

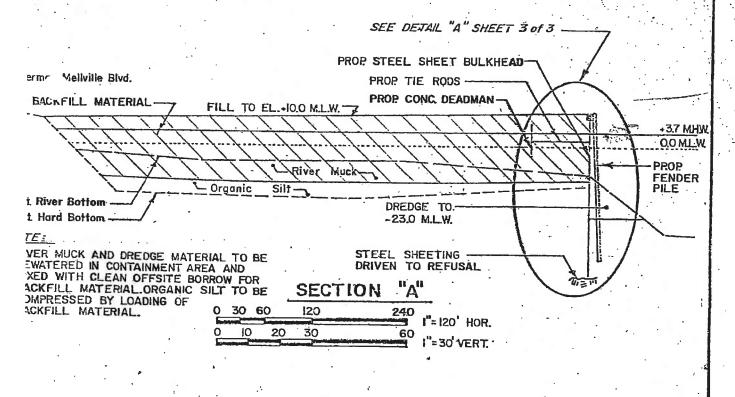
·	SECT	TION "E	3"
0 30 60	120	240	
0 10 20	30	(a)	"= 120' HOR.
	-		("=30'VERT.

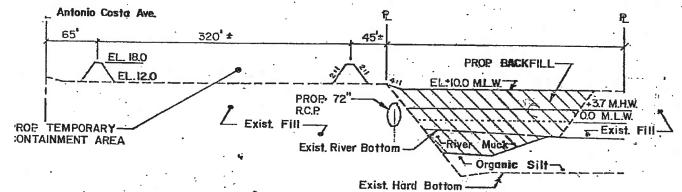
"HE CITY OF NEW BEDFORD FEB.23, 1979

IBBETTS ENGINEERING CORP NEW BEDFORD, MA.

79W-0023







CENSE PLAN NO.

wed by Department of Environmental Quality Engineering

FEB.23, 1979

PLAN

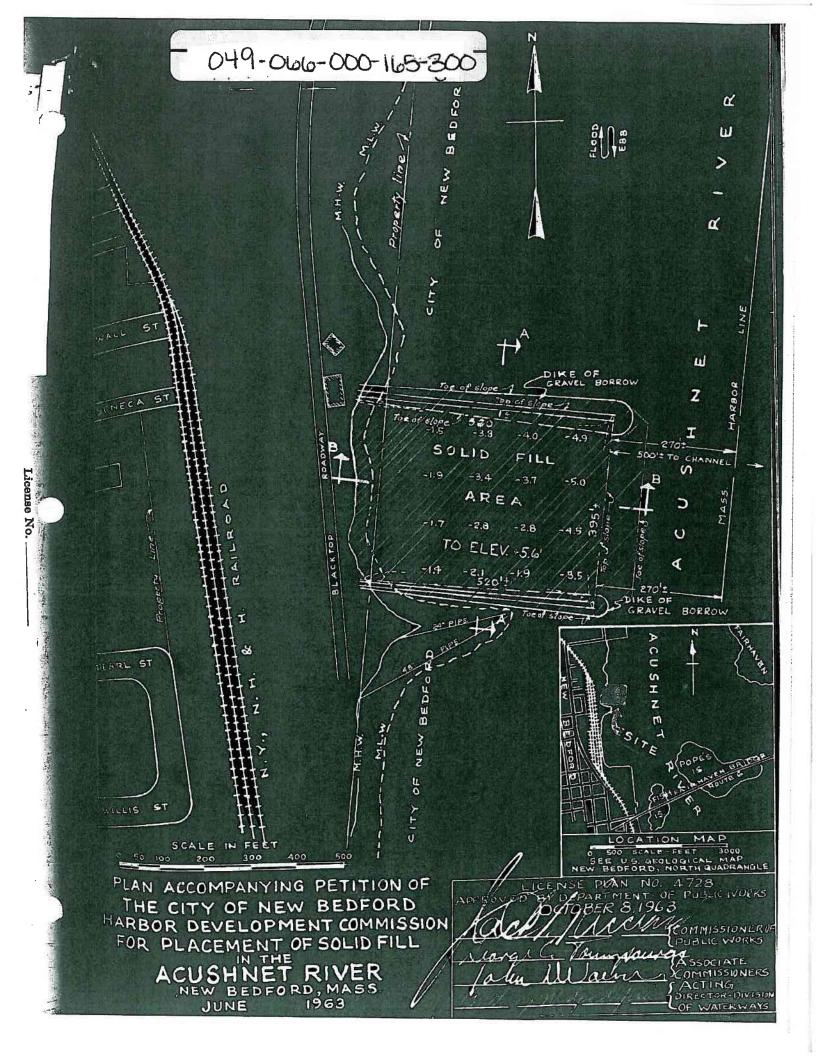
36.	_	SE	CTION	I "E	311	
0 30	60	120		240	l"= 120°	HOD
0 10	20	30	٠.,	60	1"=30'.V	

ACCOMPANYING PETITION OF HE CITY OF NEW BEDFORD

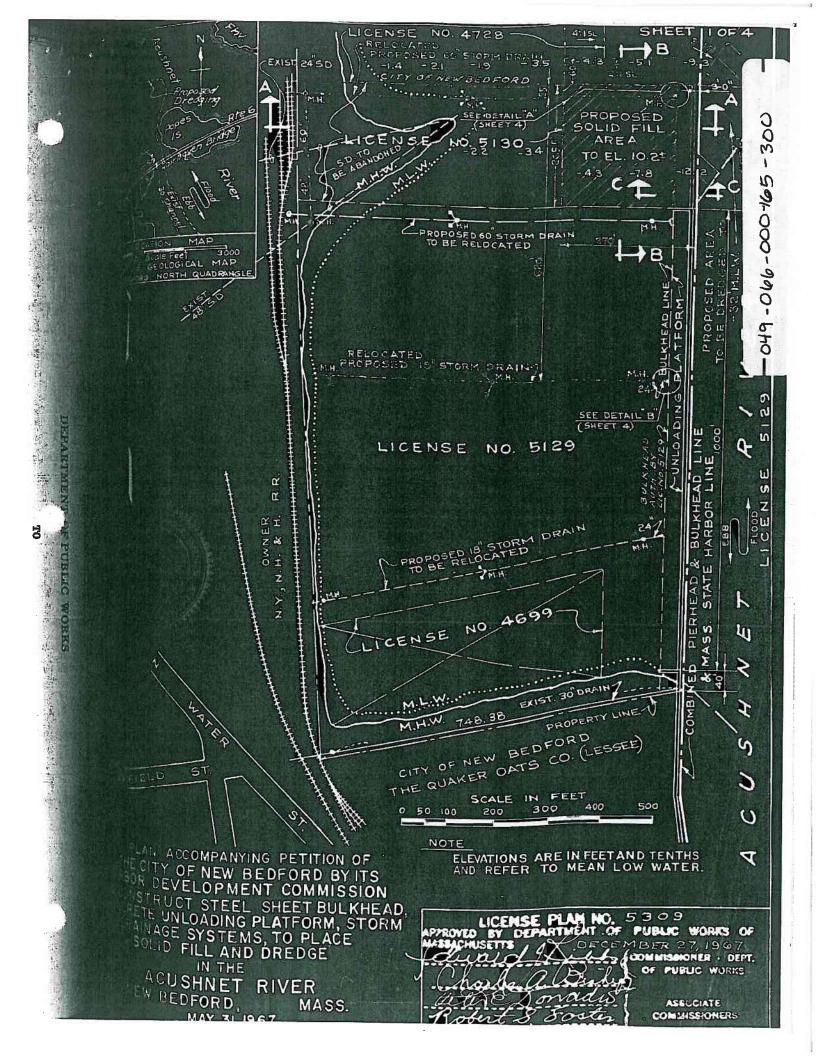
IBBETTS ENGINEERING CORP NEW BEDFORD, MA.

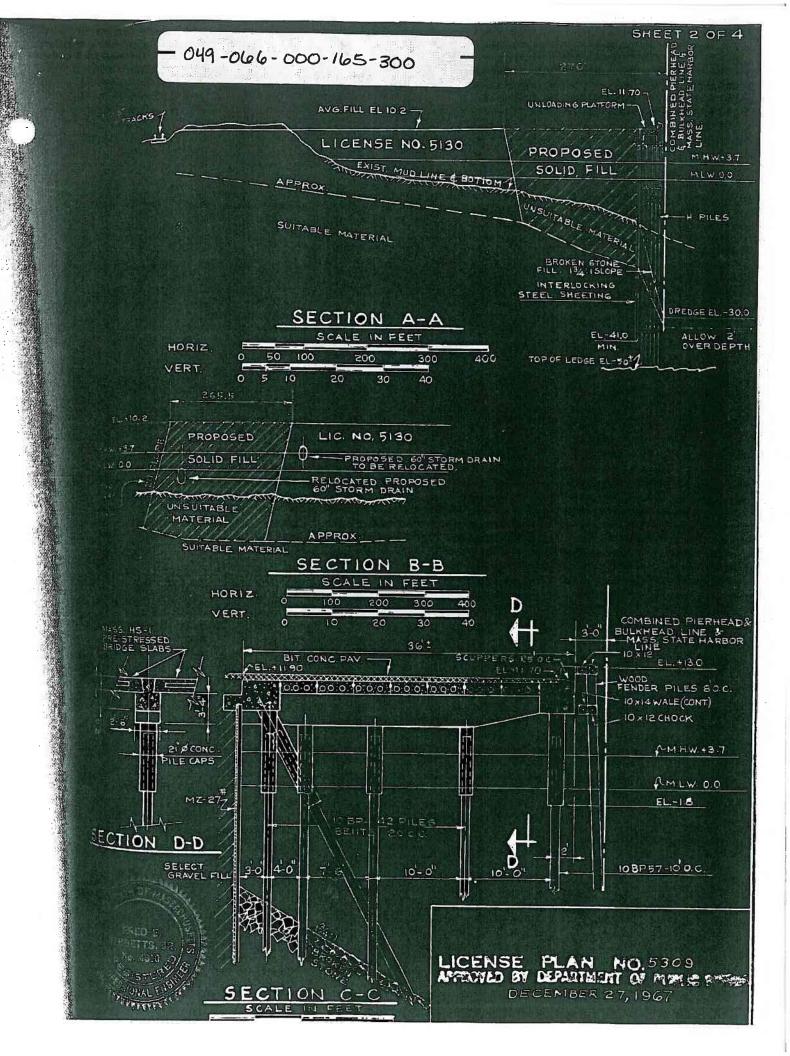
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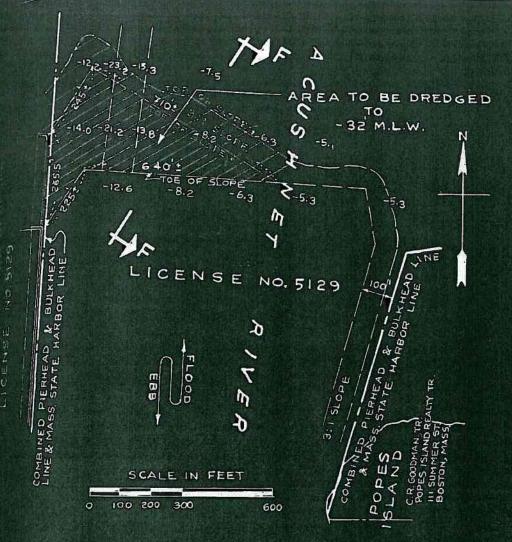


THE CITY OF NEW BEDFORD HARBOR DEVELOPMENT COMMISSION FOR PLACEMENT OF SOLID FILL 049-066-000-165-30 PM.L.W. 0.00 ACCOMPANYING PETITION OF JSHNET RIVER POINT EXISTING BOTTOM / SECTION SECTION B-B SCALE IN FEET PZO FILL EL 56 / TI F -Pr A-A GRAVEL SHEET 2 OF 2 TOP OF DIKE EL. 7.6 1113 SAZU TOP OF FILL EL. 5.6 E GRAVEL PEXISTING BOTTON APPROVED - OCTOBER 0, 1968 S RIP-RAP IF -M.L.W. 0.00 NECESSARY

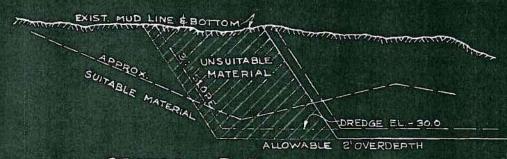




-049-066-000-165-300



M.H.W. + 3.7 M.L.W. 0.0



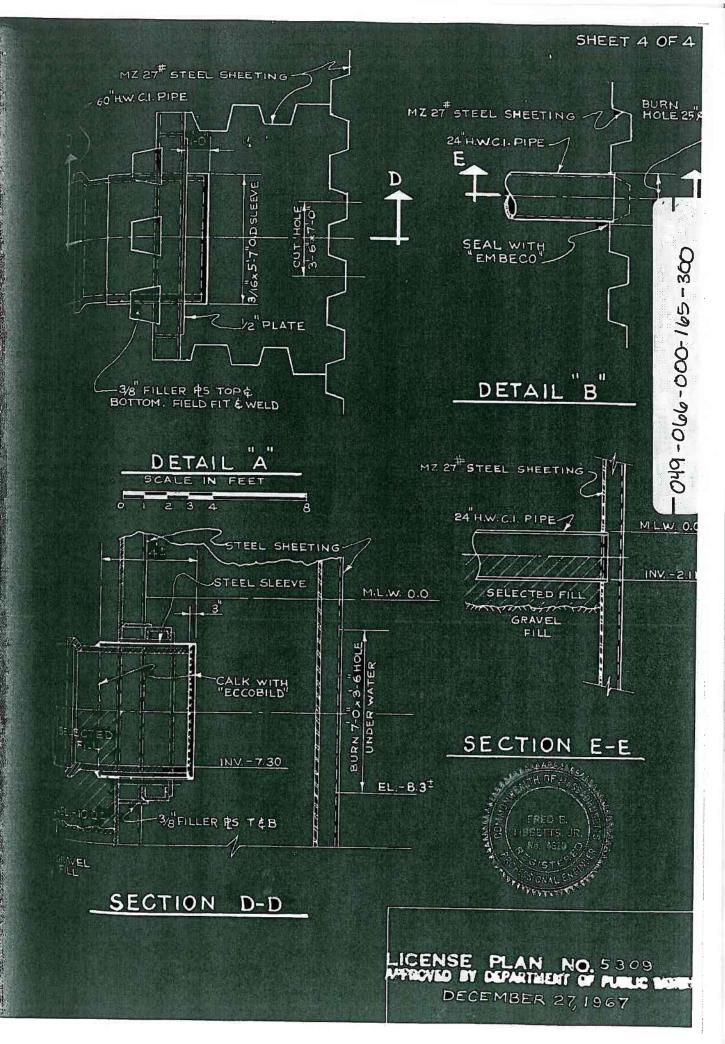
SECTION F-F

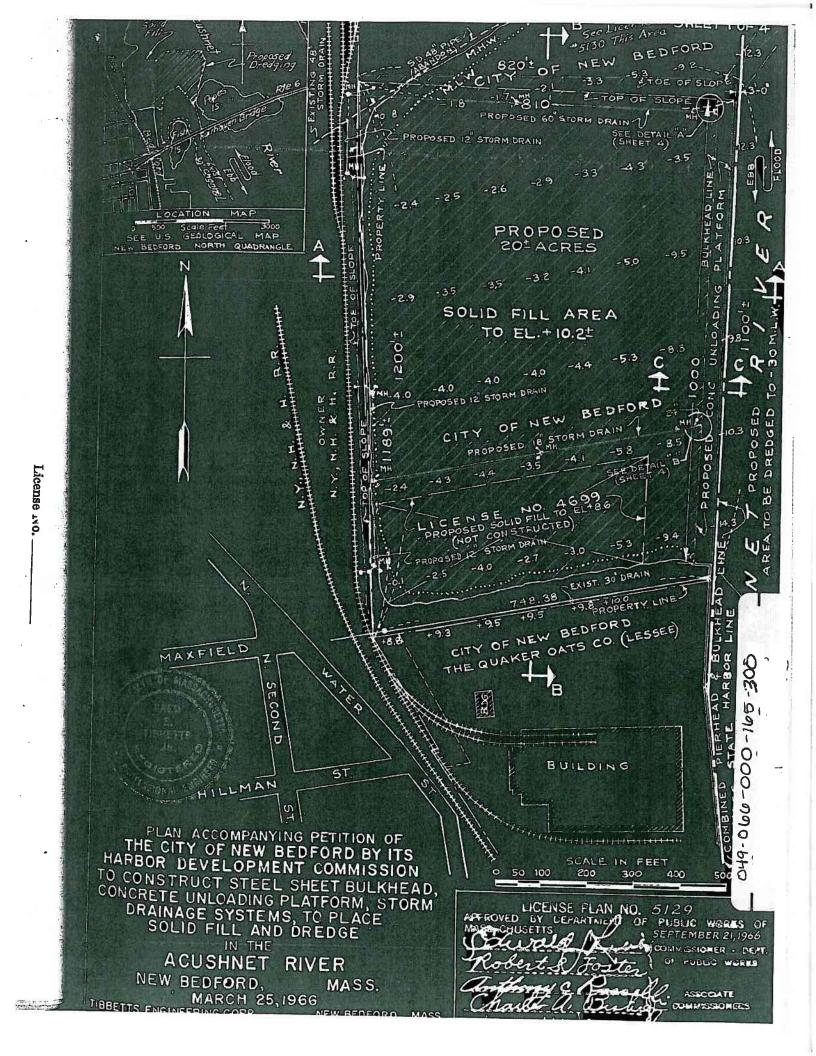
SCALE IN FEET

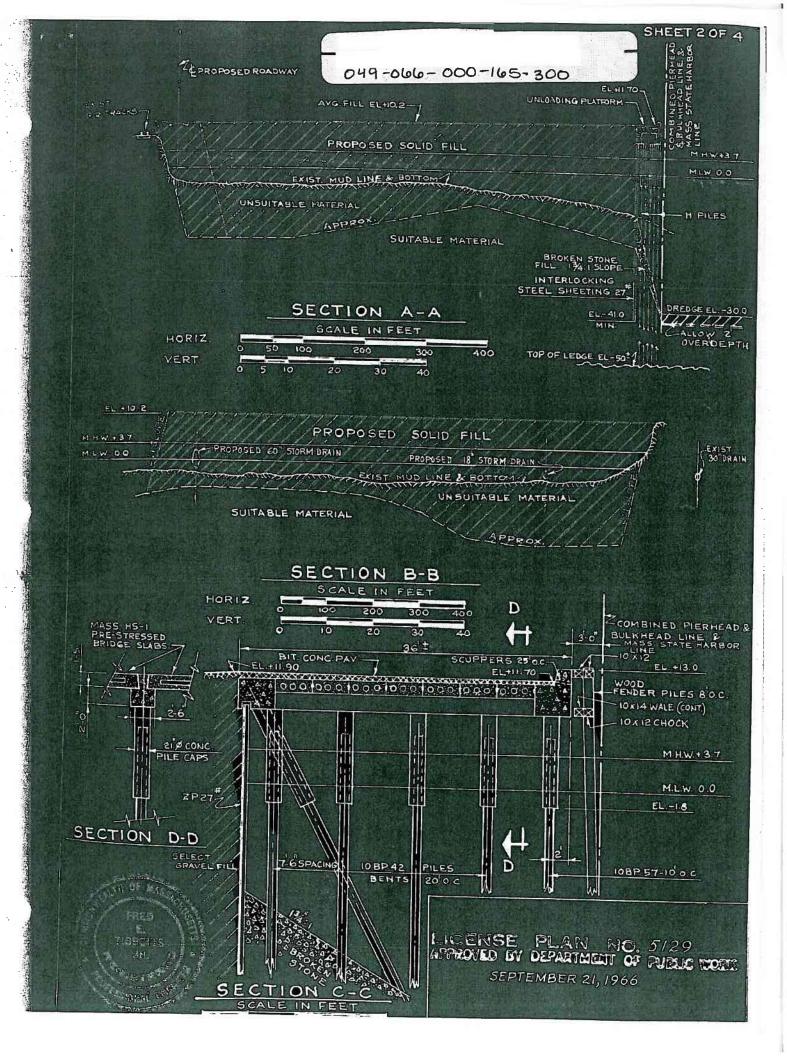
VERT. 0 10 20 30

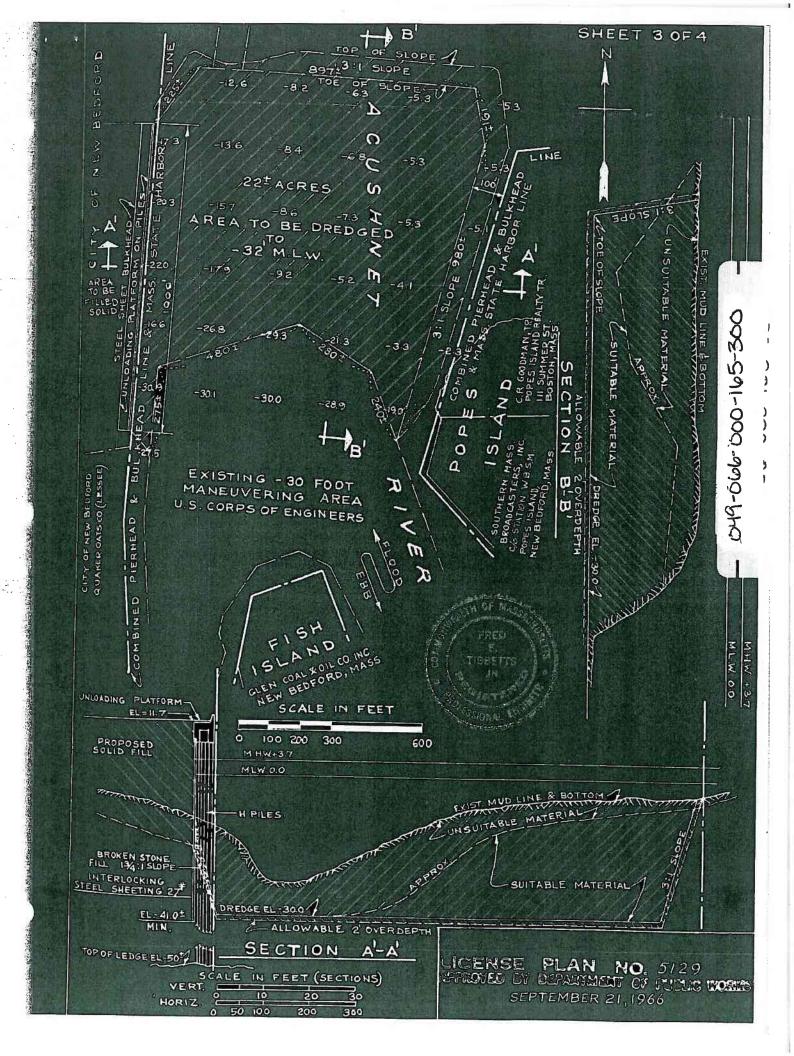
HORIZ. 0 100 200

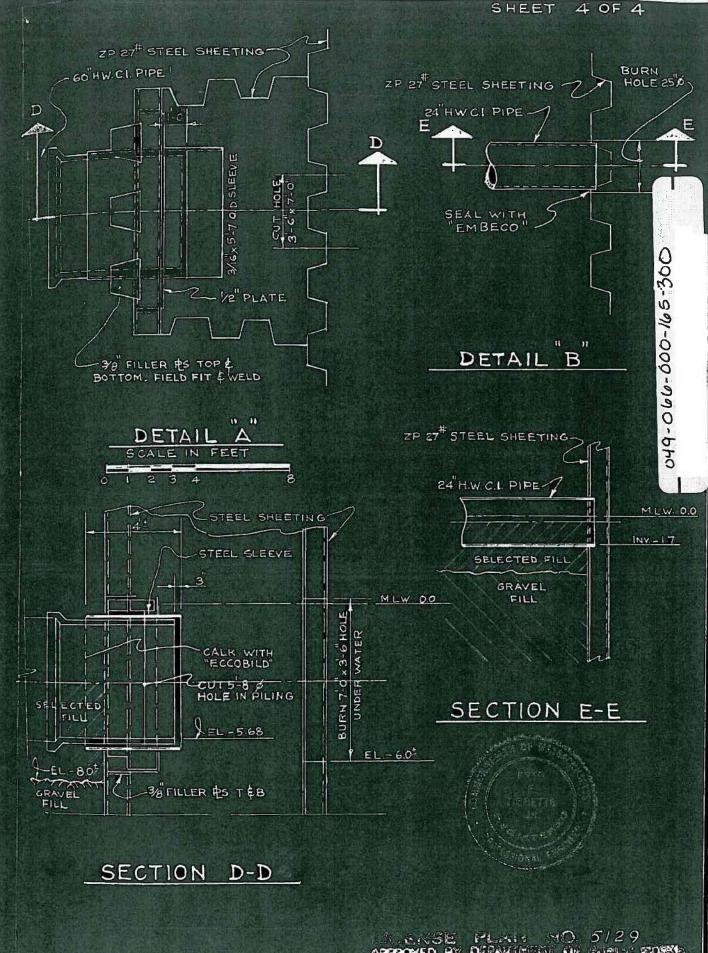
LICENSE PLAN NO 5309
APPROVED BY DEPARTMENT OF MINISTERS
DECEMBER 27,1967











CENSE PLANS MO 5/29

CPROVED BY DEPARTMENT OF PUBLIC COMMO

SEPTEMBER 21,1966

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

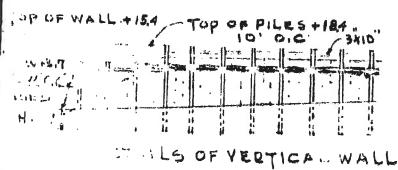
BCE Structura No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
049-002-000-003-100	049-002-000-003-100-COE1A	70-14	USACE	New Bedford	May 1969	Proposed Seawall and Fill in New Bedford at Fort Rodman County of Bristol, State of Massachusetts	7	Fort Rodman	Seawall and FII!
049-002-000-004-300	049-002-000-004-300-COE3A	200302385	USACE	New Bedford	September 2003	City of New Bedford, Massachusetts - Fort Taber Park - Pier Restoration - ACOE PGP # Permit Application	80	Fort Taber Pler	Pler
049-004-000-002-300	049-004-000-002-300-COE3A	59-21	USACE	New Bedford	October 1858	Proposed Groin and Sand Fill Rodney French Boulevard (East) Violnity of South City Pler - New Bedford Harbor, New Bedford, MA - Application by the DPW of Massachusetts Division of Waterways	-	City Pler on Rodney French Boulevard	Grein
049-004-000-008-100	049-004-000-008-100-COE1A	66-127	USACE	New Bedford	March 1966	Proposed Shore Improvements - Seawall, Sandfill and Groin - Rodney French Boulevard East - New Bedford Harbor, New Bedford - Application by the DPW of Massachusetts - Division of Waterways	-	South of City Pler on Rodney French Boulevard East	Grein
048-007-000-112-100	049-007-000-112-100-COE1A	57-303	USACE	New Bedford	September 1957	Proposed Boat Ramp - Rodney French Boulevard West - Clark Cove, New Bedford, MA - Application by DPW of Massachusetts - Division of Waterways	8	Rodney French Boulevard West	Boat Ramp
049-007-000-112-100	049-007-000-112-100-COE1B	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational improvements in Clark's Cove - New Bediord, Courty of Bristol, State of Messachusetts - Application by the City of New Bediond	ın	Rodney French Boulevard West	Seawalls and Groins
048-007-000-112-200	049-007-000-112-200-COE2A	57-303	USACE	New Bedford	September 1957	Proposed Boat Ramp - Rodney French Bouleverd West - Clark Cove, New Bedford, MA - Application by DPW of Massachusetts - Division of Waterways	8	Rodney French Boulevard West	Boat Ramp
048-007-000-112-200	048-007-000-112-200-COE2B	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational improverments in Clark's Cove - New Bedford, Courty of Brieto, State of Massachusette - Application by the City of New Bedford	rc.	Rodney French Boulevard - West	Seawalls and Groins
049-007-000-112-300	049-007-000-112-300-COE3A	57-303	USACE	New Bedford	September 1957	Proposed Boat Ramp - Rodney French Boulevard West - Clark Cove, New Bedford, MA - Application by DPW of Massachusetts - Division of Waterways	2	Rodney French Boulevard - West	Boat Ramp
048-007-000-112-300	049-007-000-112-300-COE3B	78-326	USACE	New Bedford	April 1977	Proposed Shore Prolection and Recreational improvements in Clark's Cove - New Badford, Courty of Bistol, Stale of Massachusetts - Application by the City of New Bedford	2	Rodney French Boulevard - West	Seawalls and Groins
048-008-000-286-100	048-008-000-286-100-COE1A	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational improvements in Clark's Cove - New Bedford, County of Bristol, State of Massachusetts - Application by the City of New Bedford	5	Rodney French Boulevard - West	Seawalls and Groins
048-008-000-286-200	049-008-000-286-200-COE2A	58-258	USACE	New Bedford	May 1958	Proposed Sand Fill and Groins - Rodney French Boulevard West - Clark Cove, New Bedford, Massachusetts - Application by the DPW of Massachusetts - Division of Waterways	4	Radney French Boulevard - West	Groins and Sand Fill
049-009-000-286-200	049-008-000-286-200-COE2B	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational improvements in Clark Scove - New Bedford, County of Bristol, State of Massachusetts - Application by the City of New Bedford	9	Rodney French Boulevard - West	Seavells and Groins
048-011-000-030-400	049-011-000-030-400-COE4A	58-258	USACE	New Bedford	May 1858	Proposed Sand Fill and Groine - Rodney French Boulevant West - Clark Cove, New Bedford, Messachuseste - Application by the DPW of Messachuseste - Division of Waterways	4	Rodney French Boulevard - West	Groins and Sand Fill
048-011-000-030-400	049-011-000-030-400-COE4B	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational Improvements in Clark's Cove - New Bedford, County of Bristol, State of Massachusetts - Application by the Ctty of New Bedford	£.	Rodney French Boulevard - West	Seawalls and Groine
048-012-000-247-100	049-012-000-247-100-COE1A	82-085	USACE	New Bedford	March 1981	Proposed Timber Pier, Solid Fill and Parking Facilities in New Bedford Outer Harbor at New Bedford, County of Britatol, State of MA, Application by City of New Bedford.	3	Fredrick Street	Riprap
048-012-000-247-200	048-012-000-247-200-COE2A	82-085	USACE	New Bedford	March 1981	Proposed Timber Pier, Solid Fill and Parking Facilities in New Badford Outer Harbor at New Bedford, County of Bristol, State of MA, Application by City of New Badford	е	Fredrick Street	Riprap
048-013-000-055-200	048-013-000-055-200-CQE2A	78-326	USACE	New Bedford	April 1977	Proposed Shore Protection and Recreational improvements in Clarks Cove. New Badford, County of Britleti, State of Massachusetts - Application by the City of New Bedford	S	Rodney French Boulevard - West	Groins and Seawalle

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

BCE Structure No	Document No	Contract/ Drawing	Contract/ Drawing Entity	Municipality	Date	THIG	Sheets	Location	Description
		Number							
048-053-000-120-100	48-053-000-120-100 048-053-000-120-100-COE1A	77-212	USACE	77-212 USACE New Bedford	May 1977	Proposed Bulkhead, Solid Fill, Dredging and Demolition in New Bedford, Harbor at New Bedford, County of Bristol, Massachusette - Application by City of New Bedford.	2	North of State Pier on Mac Arthur Drive	Fill with Bulkhead
049-066-000-165-100	049-086-000-165-100 049-088-000-165-100-COE1A	79-276	79-276 USACE	New Badford	July 1979	Proposed Steel Sheet Pile Bulkhead, Fender Pilea, Storm Drainage, Placement of Solid Fill and Dredging in New Bedford Harbor	е	Costa Avenue	Proposed Fill with Bulkhead

053 1175

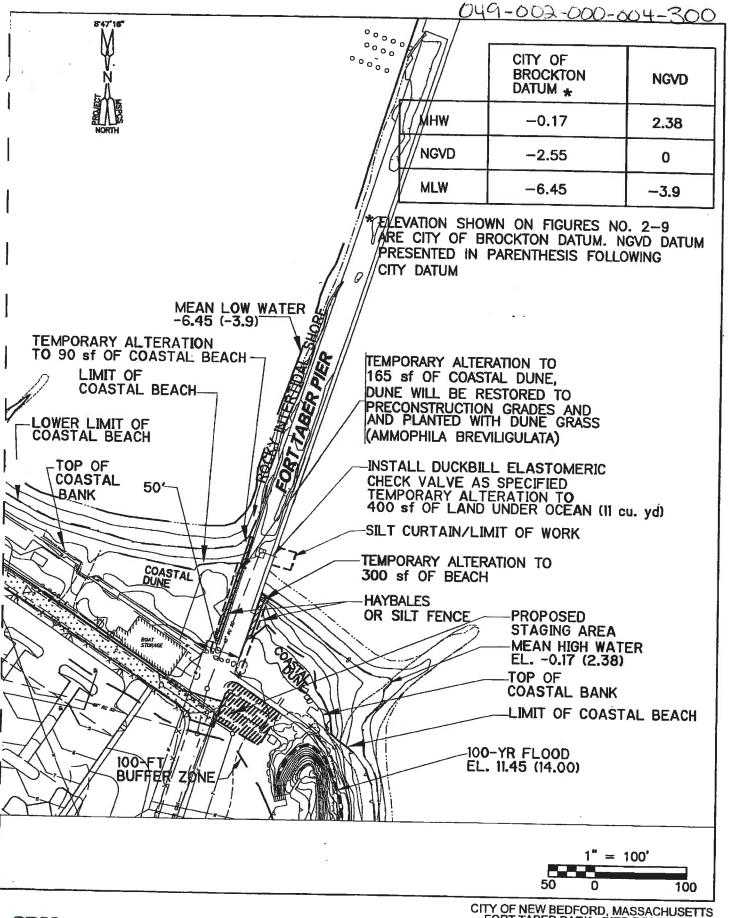
049-002-000-003-100 104 BCALL OHE SEA WALL BUZZARDS BAY 17. 00 BECTION A. MIN, & TOHE B. 2 TO 60 / 11 C . 2004 TO 2 " D. D TO GOOM PROPOSED SEA WALL & FILL IN HEW BEDFOLD AT FORT RODMAN COUNTY OF BLISTOL SOUNDINGS OF ELEV. IN STATE OF MASS. FEET REFER TO MLW . O.O APPLICATION BY CITY OF NEW BEDFORD MAY 1969



PUMPED FILL HIA.9-20 10 0 10 6

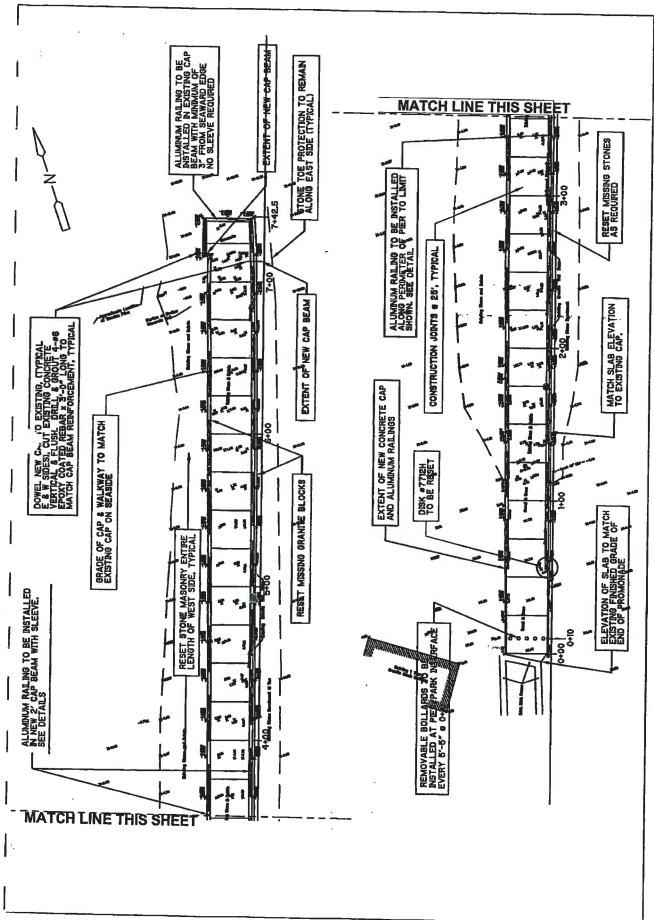
SCALE

049-002-000-003-100 NORTH FORT RODMAN BEFER TO M LW. O CONC. INTERCEPTOR 100,000 CU,Y DS PROPOSED SEA WALL & FILL IN NEW BED ORD BUZZADDS BAY AT FORT RODMAN COUNTY OF BRISTOL STATE OF MAGE APPLICATION BY CITY OF NEW BEDFOLD

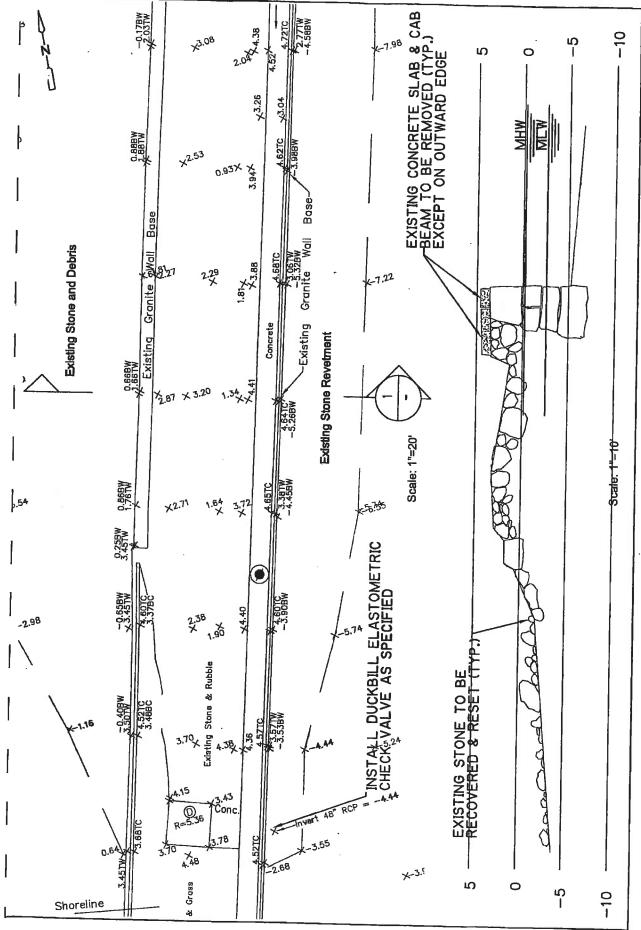


CDM

CITY OF NEW BEDFORD, MASSACHUSETTS FORT TABER PARK - PIER RESTORATION ACOE PGP II PERMIT APPLICATION SITE PLAN



CITY OF NEW BEDFORD, MASSACHUSETTS
FORT TABER PARK - PIER RESTORATION
ACOE PGP II PERMIT APPLICATION
PIER PLAN
SEPTEMBER 2003
Figure No. 3



CITY OF NEW BEDFORD, MASSACHUSETTS FORT TABER PARK - PIER RESTORATION

ACOE PGP II PERMIT APPLICATION PLAN AND SECTION 1

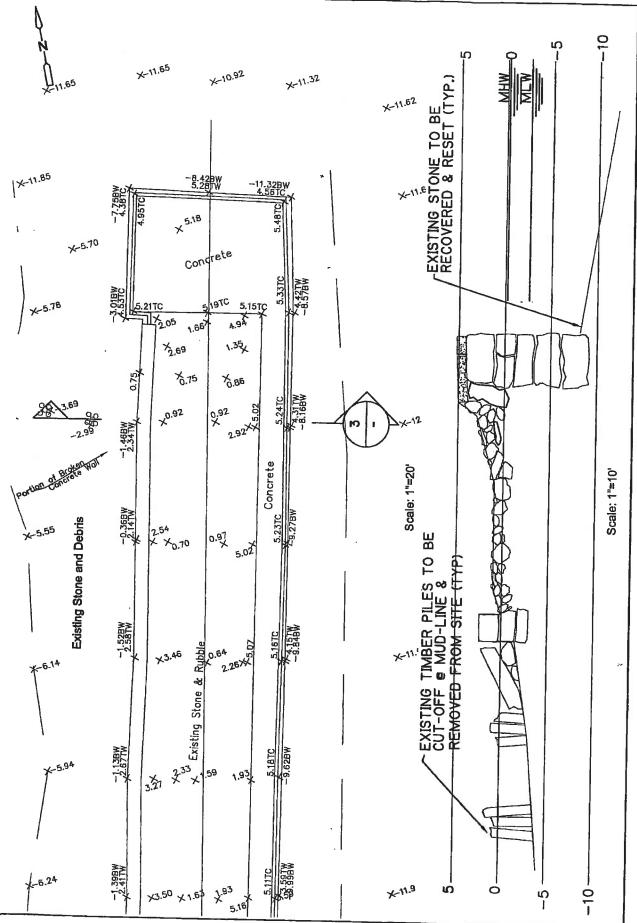
049-002-000-004-300

S -1.39BW ¥.93 X-14 ×3.50 ×1.5 5.15 Granite Wall 5.10TC -8.40BW 1.72 4.90 ×2.51 5.10TC ×2.03 ×4.82 ×2.51 X-11: -1.10BW 5.08TC Scale: 1"=20' Scale: 1"=10' ×291 205 Ø -1.12BW X-6.12 3.84 X 1.84 X-10.8 4.55 Granite -Existing 4.96TC ~1.55FW 3.83 ×2.40 55010A EXISTING STONE TO BE RECOVERED & RESET (TYP.). Concrete -1.92BW 4.86 9,7 3.68 -10.25 1.70 5 0 10 1.22BW .15 ٦.69

ACOE PGP II PERMIT APPLICATION PLAN AND SECTION 2

SEPTEMBER 2003 Figure No. 5

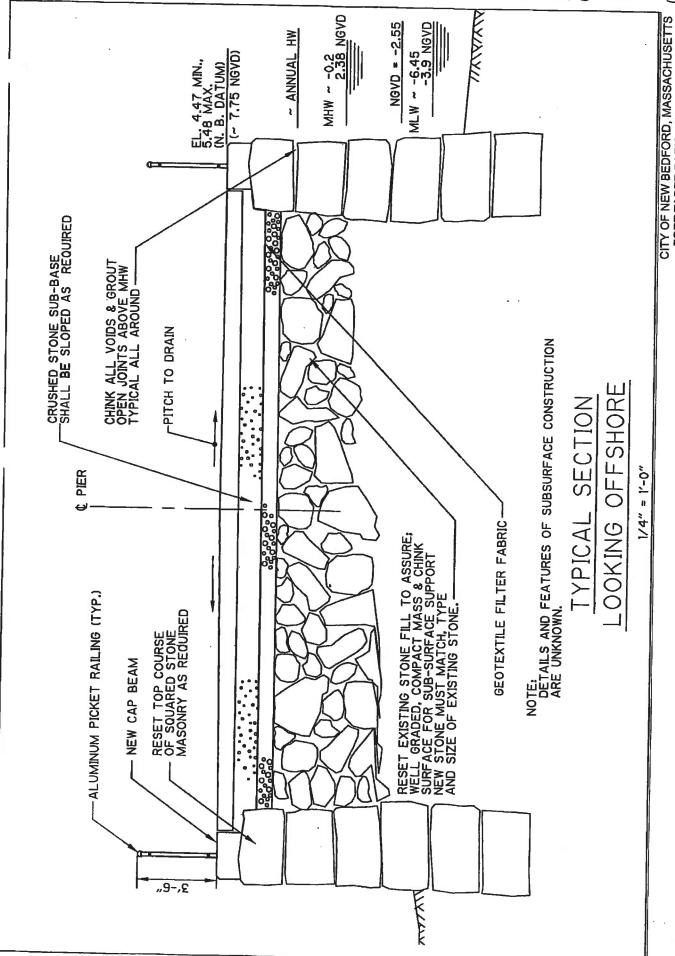
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CITY OF NEW BEDFORD, MASSACHUSETTS
FORT TABER PARK - PIER RESTORATION
ACOE PGP II PERMIT APPLICATION
PLAN AND SECTION 3

SEPTEMBER 2003 Figure No. 6

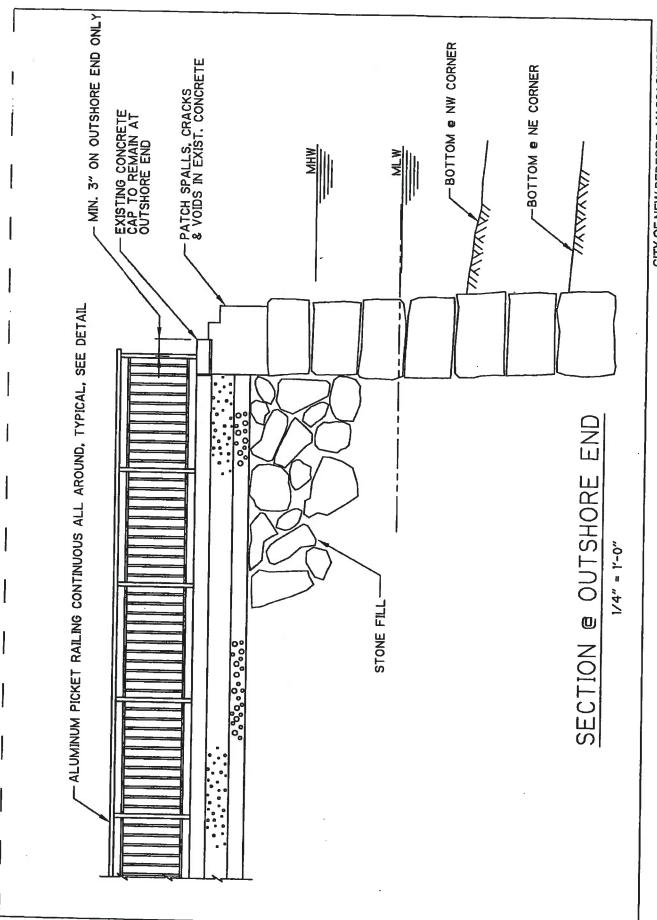




ACOE PGP II PERMIT APPLICATION
PIER SECTION 2
SEPTEMBER 2003

Figure No. 7

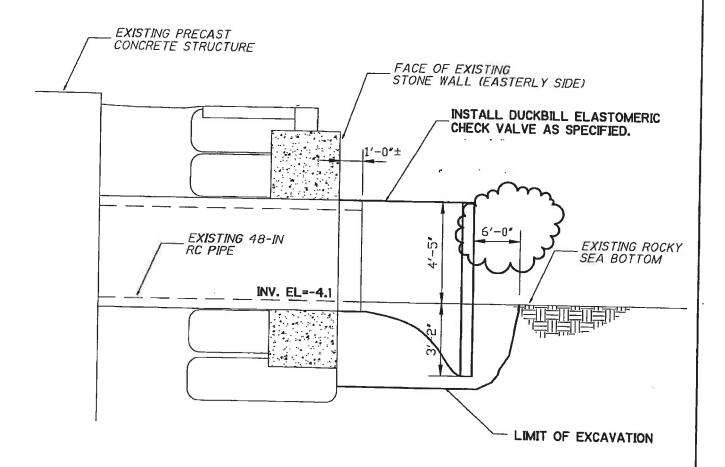
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ACOE PGP II PERMIT APPLICATION
PIER SECTION
PIER SECTION 2
SEPTEMBER 2003
FIGURE NO. 8
FIGURE NO. 8

8

049-002-000-004-300



48-IN DUCKBILL ELASTOMERIC CHECK VALVE INSTALLATION

N.T.S

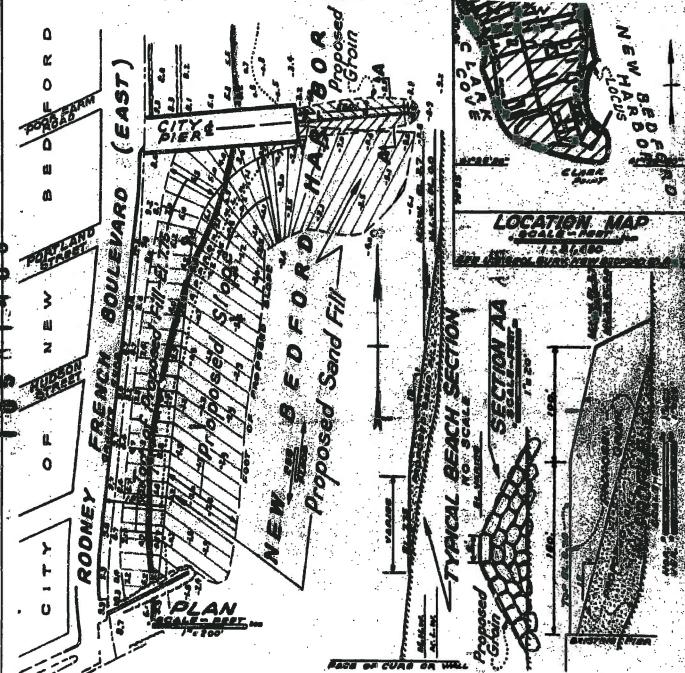
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CITY OF NEW BEDFORD, MASSACHUSETTS FORT TABER PARK - PIER RESTORATION

DUCKBILL CHECK VALVE

SEPTEMBER 2003

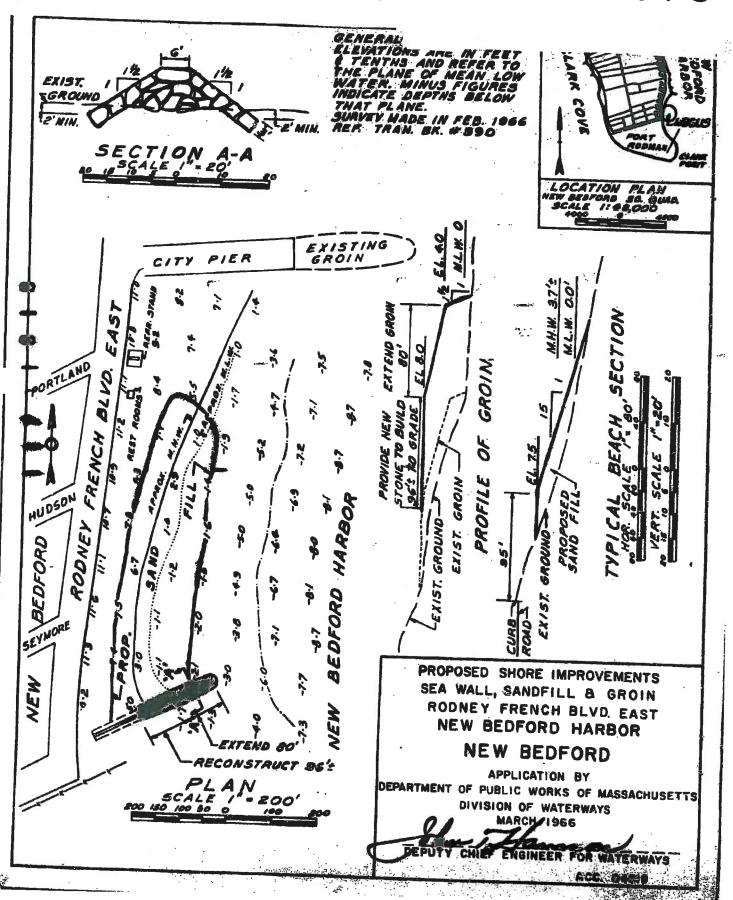
049-00



NOTE
ELEVATIONS ARE IN FEST AND TENTINE
AND REFER TO PLANE OF MEAN LOW WATER.
MINUS FIGURES SHOW DEPTHE ESLOW
THE SAME PLANE.
APPACK. EXISTING ORDING SHOWN THUS THITTER
8/DE AND SNO ELOPES POR GROW ARE 2:1
LOCATION OF PROPOSED WORK IS SHOWN IN REQ.

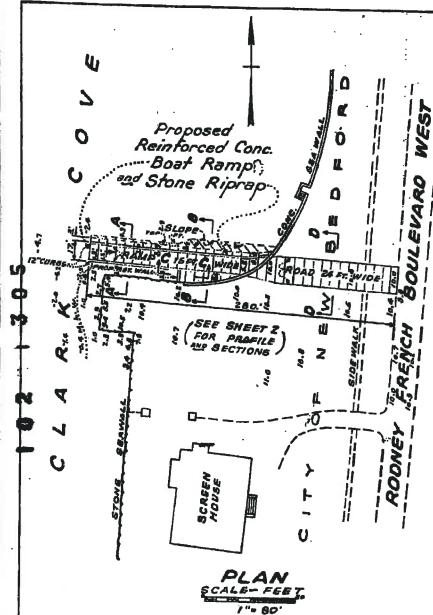
PROPOSED GROIN AND SILL RODNEY PRENCH BLVD (EAST)
VICINITY SOUTH & CITY PIER
NEW BEDFORD HARB.
NEW BEDFORD MASS. DEPARTMENTSE PUBLIC WORKS OF MASSACHUSET

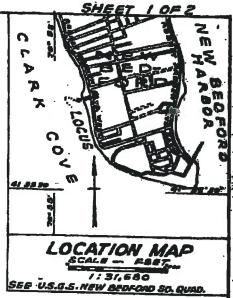
DIVISION EL WATERWAYS OCTOBER 1958



0 8 8 0 2 7 5

049-007-000-112-100





NOTE

ELEVATIONS ARE IN FEST AND TENTHS
AND SHOW HEIGHTS ABOVE PLANE OF
MEAN LOW WATER. MINUS PIGURES SHOW
DEPTHS BELOW THE SAME PLANE.
OESIGN FOR STEEL REINFORCING AND FOR
CONCRETE KEYWAYS, EXPANSION JDINTS, ETC.
TO BE OF ACCEPTED STANDARDS.
PAVING FOR ENTRANCE ROADWAY TO BE OF
SUITABLE SITUMINOUS CONCRETE, APPLIED
IN TWO 12 INCH LAYERS.
LUCATION OF PROPOSED WORK IS SHOWN
IN RED.

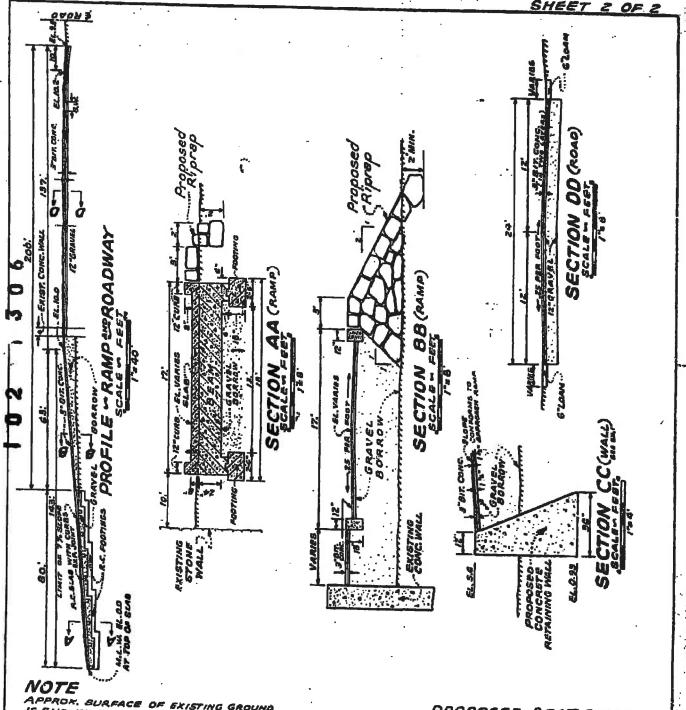
PROPOSED BOAT RAMP
RODNEY FRENCH BLVO. WEST
CLARK COVE
NEW BEDFORD MASS.
APPLICATION BY
DEPARTMENT OF PUBLIC WORKS WASSACHUSETTS

PIVISION - WATERWAYS
SEPTEMBER 1957

CHIEF WATERVIAYS ENGINEER

0 8 8 0 2 7 6

049-007-000-112-100 049-007-000-112-200. 049-007-000-112-300



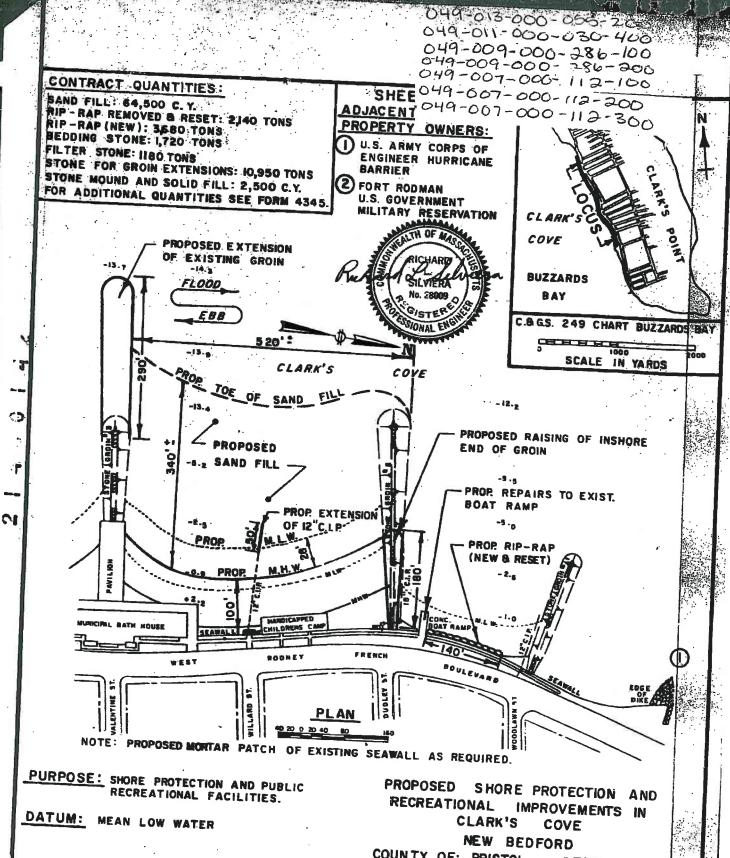
APPROX. SURFACE OF EXISTING GROUND IS SHOWN THUS, TITTITY OCSIGN FOR STEEL REINFORCING AND FOR CONCRETE KEY WAYE, EXPANSION JOINTS ETC. TO BE OF ACCEPTED, APPROVED STANDARDS.

PAVING FOR ENTRANCE ROADWAY AND APPROACH SLOPE TO BE OF SUITABLE BITUMINOUS CONCRETE IN TWO IZINCH LAYERS, A YOTAL OF 3 INCHES.

PROPOSED BOAT RAMP
RODNEY FRENCH BLVO, WEST
CLARK COVE
NEW BEDFORD - MASS.
APPLICATION BY
EPARTMENT PUBLIC WORKS - MASSACHUSETI

DEPARTMENTS PUBLIC WORKS MASSACHUSETTS
DIVISION OF WATERWAYS
SEPTEMBER 1957

CHIEF WATERWAYS ENGINEER



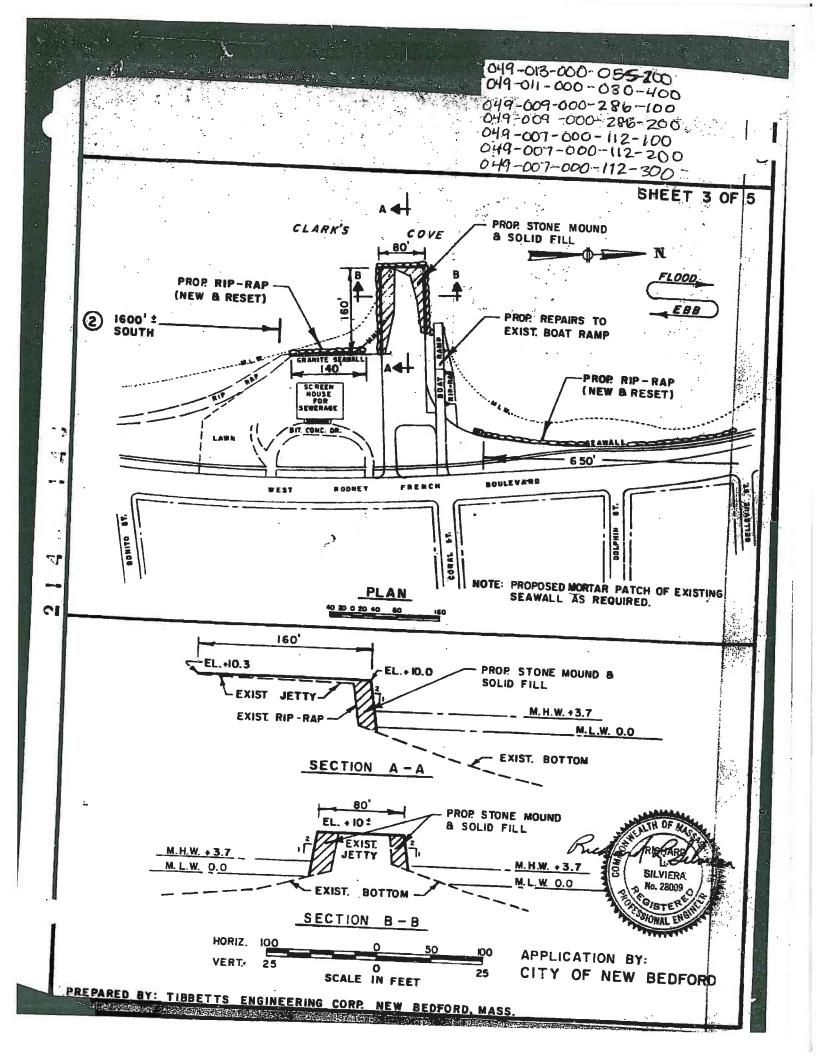
COUNTY OF: BRISTOL STATE: MASS.
APPLICATION BY: CITY OF NEW BEDFORD

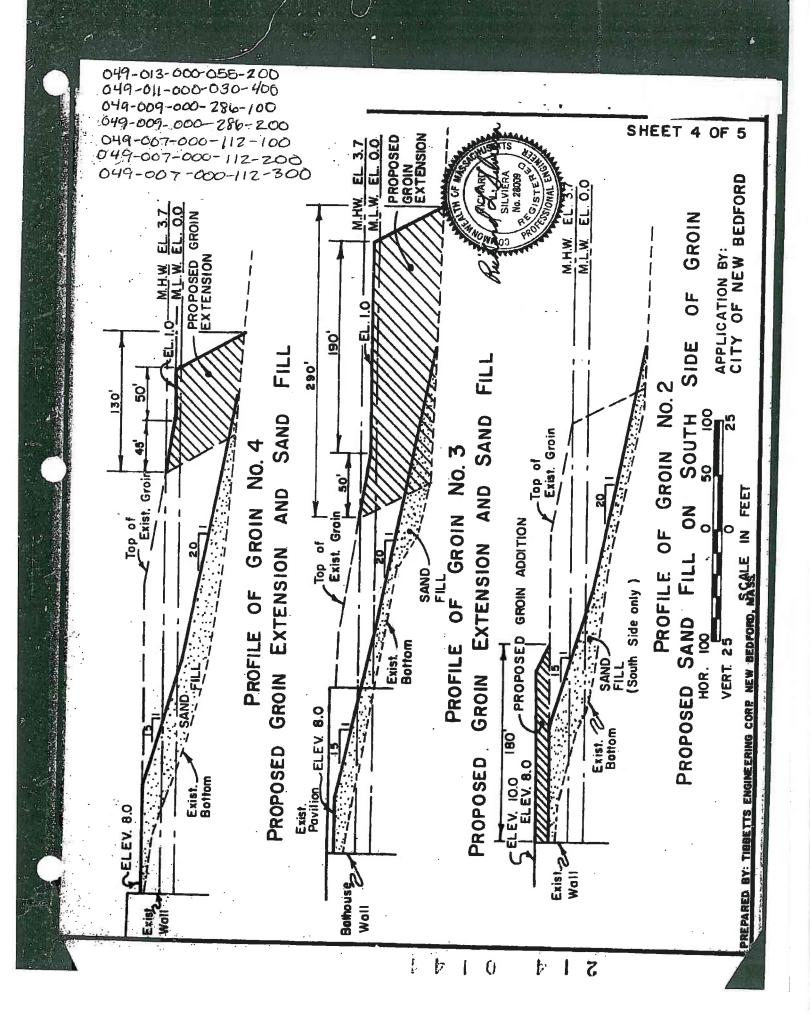
APRIL 15, 1977

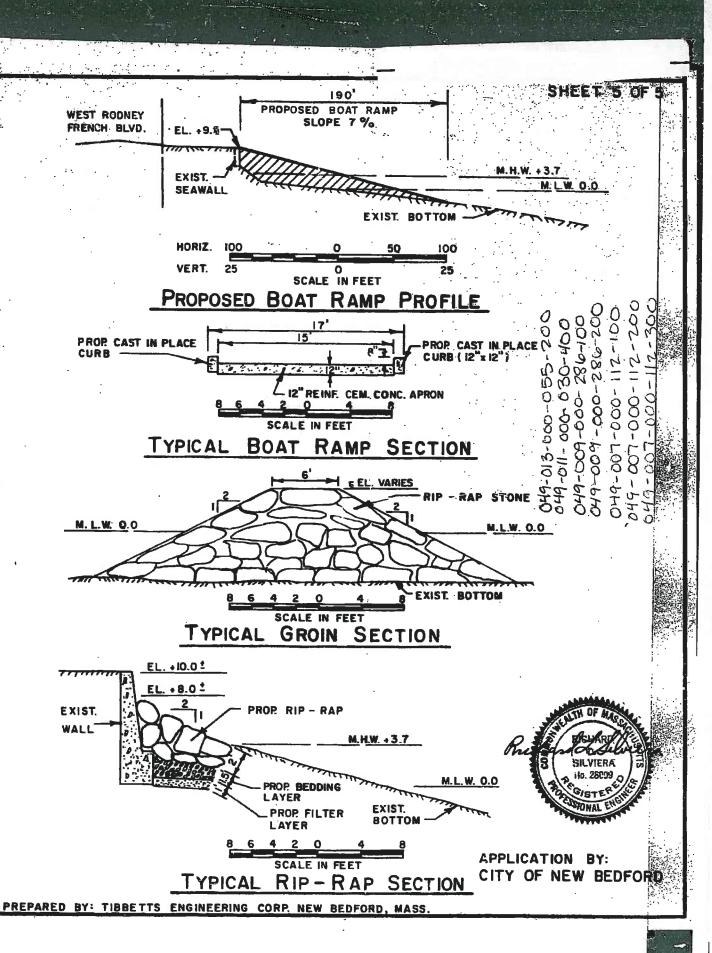
PREPARED BY TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

049-011-000-030-400 049-009-000-286-100 049-009-000-286-200 049-007-000-112-100 520' 1 SHEET 210F H OF PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN -13. 830 FLOOD. **SILVIERA** GROIN No. 28009 EBB CISTER ROP SSIONAL EN -11. 2 PROP. REMOVAL OF PROP. SAND BOAT RAMP & BUILD REIN. CONC. 05 SEAWALL 79E 260 PROP. EXTENSION OF 12"CLP PROP PROF SAND PROP. PROP. RIP-RAP (NEW-B-RESET) MURICIPAL HOUSE BOULEVARO WEST BODREY NOTE: PROPOSED MORTAR PATCH EXISTING SEAWALL AS REQUIRED. LUCAB PL AN HAZELWOOD PARK TO GROIN PROP BOAT RAMP(17' WIDE) CLARK'S COVE FLOOR PROP RIP-RAP (NEW B RESET) PROP REMOVAL OF BOAT RAMP & BUILD PROP TOE OF REIN, CONC. SEAWALL SAND FILL-PROP. RIP-RAP (NEW & RESET) PROP RIP - RAP (NEW & RESET) PROP. BIT. PARKING BOULEVARD FRENC RODNEY 650 WEST NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS SOULDNECK REQUIRED. PLAN APPLICATION BY: 40 20 0 20 40 80 CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

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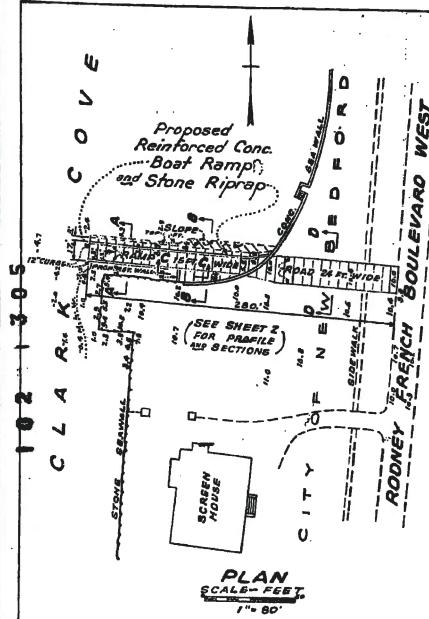


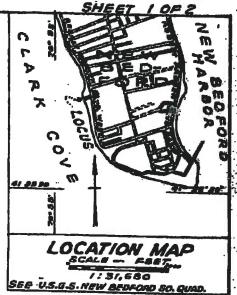


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NOTE

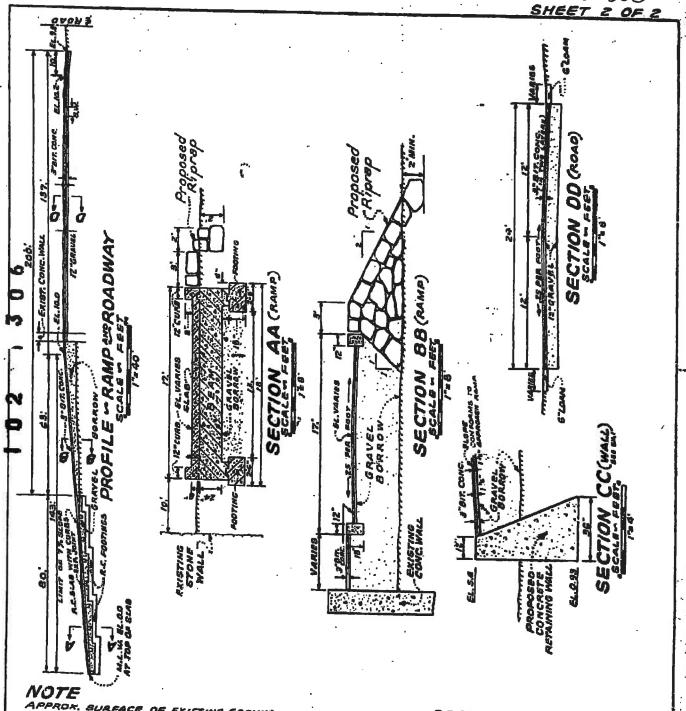
ELEVATIONS ARE IN PEET AND TENTHS
AND SHOW MEIGHTS ABOVE PLANE OF
MEAN LOW WATER. MINUS PIGURES SHOW
DEPTHS BELOW THE SAME PLANE.
OESIGN FOR STEEL REINFORCING AND FOR
CONCRETE KEYWAYS, EXPANSION JOINTS, ETC.
TO BE OF ACCEPTED STANDARDS.
PAVING FOR ENTRANCE ROADWAY TO BE OF
GUITABLE BITUMINOUS CONCRETE, APPLIED
IN TWO 1 12 INCH LAYERS.
LUCATION OF PROPOSED WORK IS SHOWN
IN RED.

PROPOSED BOAT RAMP
RODNEY FRENCH BLVD. -- WEST
CLARK COVE
NEW BEDFORD -- MASS.
APPLICATION SY
DEPARTMENTO-PUBLIC WORKS OF MASSACHUSETTS
DIVISION -- WATERWAYS
SEPTEMBER 1957

ENGINEER

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APPROX. SURFACE OF EXISTING GROUND IS SHOWN THUS, TITTED.

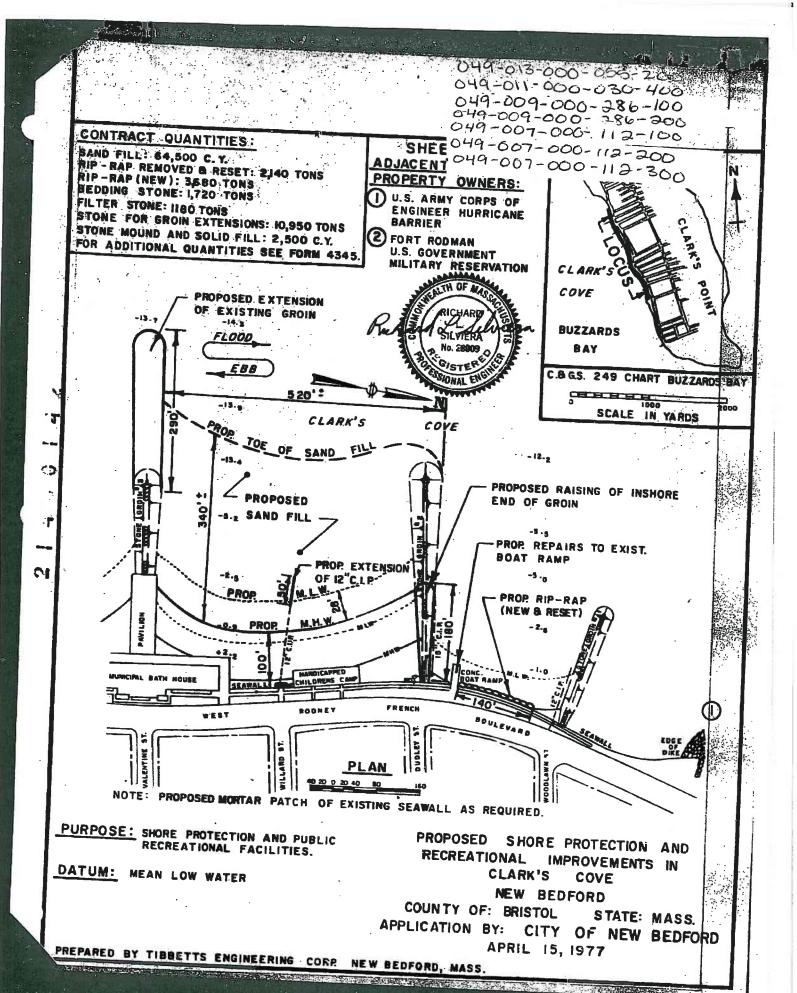
DESIGN FOR STEEL REINFORCING AND FOR CONCRETE KEY WAYE, EXPANSION JOINTS, ETC. TO BE OF ACCEPTED, APPROVED STANDARDS.

PAVING FOR FITTHANCE ROADWAY AND APPROACH SLOPE TO BE OF SUITABLE BITUMINOUS CONCRETE IN TWO I'ZINCH LAYERS, A YOTAL OF 3 INCHES.

PROPOSED BOAT RAMP RODNEY FRENCH BLVO.-WEST CLARK COVE

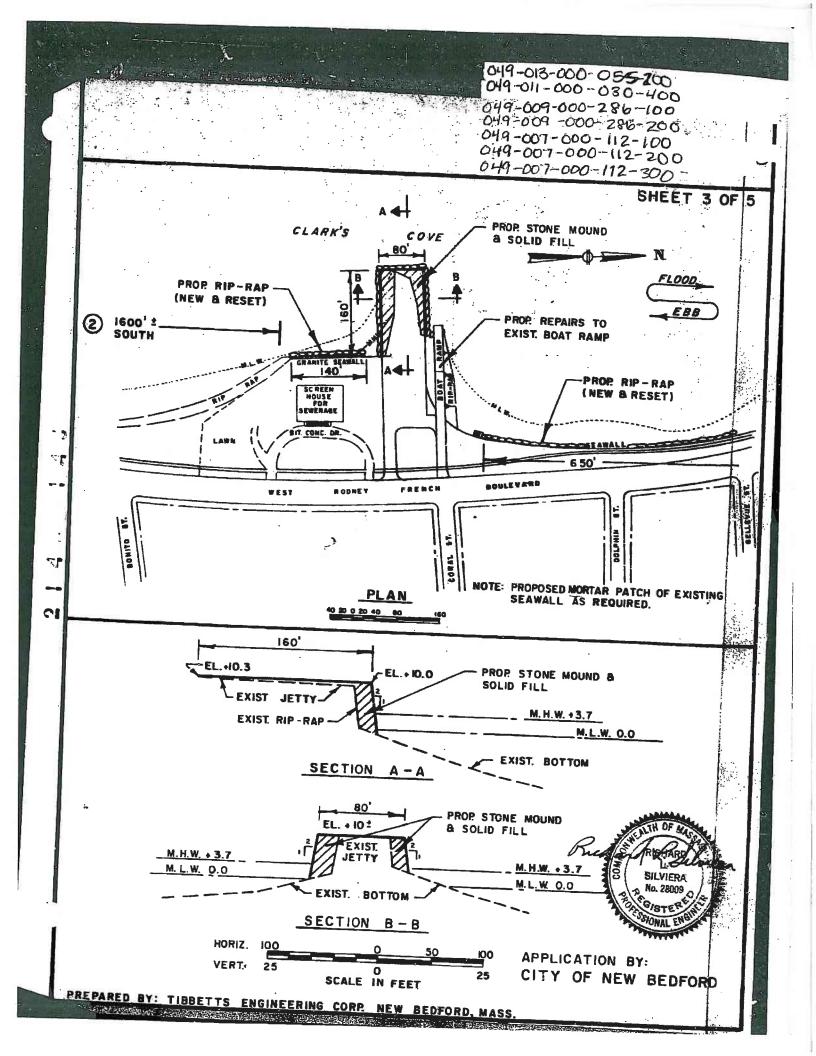
CLARK COVE
NEW BEDFORD - MASS.
APPLICATION BY
DEPARTMENT PUBLIC WORKS - MASSACHUSETTS
DIVISION OF WATERWAYS
SEPTEMBER 1957

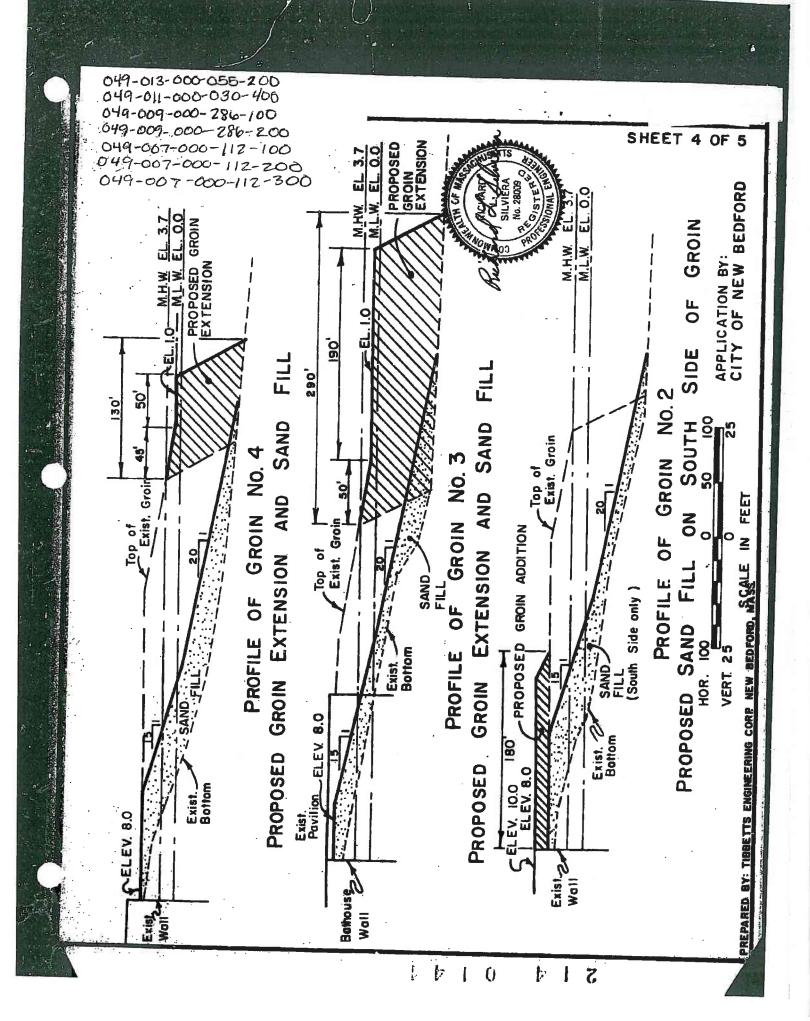
CHIEF WATERWAYS ENGINEER.

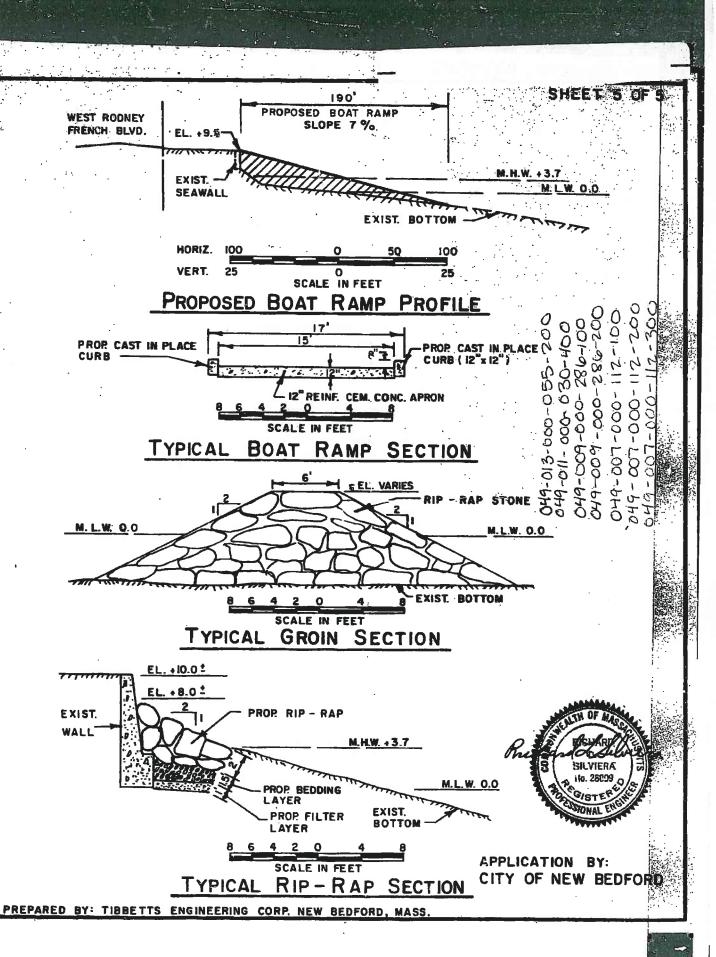


049-011-000-030-400 049-009-000-286-100 049-009-000-286-200 049-007-000-112-100 049-007-000-112-200 049-007-000-112-300 SHEET 210F 520 H OF PROP EXTENSION OF COVE RICHARD EXIST. GROIN 830 FLOOD SILVIERA GROIN No. 28009 CISTER E88 SSIONAL EN -11. 2 PROP REMOVAL OF PROP SAND BOAT RAMP & BUILD REIN. CONC. OF SEAWALL PROP EXTENSIO OF 12"CLP PROP PROP PROP. RIP-RAP (NEW-B-RESET) SOUL EVARD NOTE: PROPOSED MORTAR PATCH EXISTING SEAWALL AS REQUIRED. LUCAB HAZELWOOD TO GROIN PROP BOAT RAMP(I7' WIDE) CLARK'S COVE FLOOD PROP RIP-RAP (NEW & RESET) PROP REMOVAL OF EBB BOAT RAMP & BUILD PROP TOE OF REIN, CONC. SEAWALL SAND FILL PROP. RIP-RAP (NEW & RESET) PROP RIP-RAP (NEW & RESET) PROP. BIT. PARKING RODNEY WEST NOTE: PROPOSED MORTAR PATCH OF 49UIDNECK EXISTING SEAWALL AS REQUIRÉD. PLAN APPLICATION BY: 29 40 80 CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

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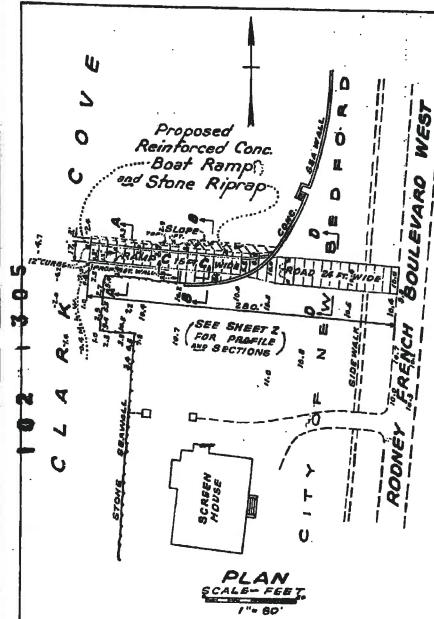


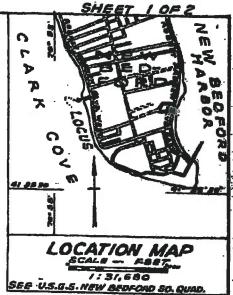


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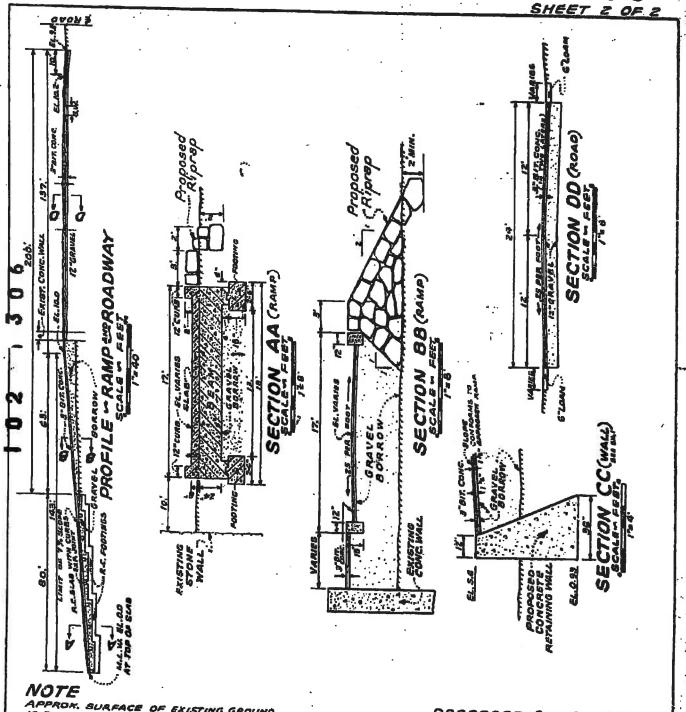
NOTE

ELEVATIONS ARE IN FEET AND TENTHS
AND SHOW MEIGHTS ABOVE PLANE OF
MEAN LOW WATER.MINUS PIGURES SHOW
DEPTHS BELOW THE SAME PLANE.
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TO BE OF ACCEPTED STANDARDS.
PAVING FOR ENTRANCE ROADWAY TO BE OF
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IN TWO 12 INCH LAYERS.
LUCATION OF PROPOSED WORK IS SHOWN
IN BED

PROPOSED BOAT RAMP
RODNEY FRENCH BLVD. -- WEST
CLARK COVE
NEW BEDFORD -- MASS.
APPLICATION BY
DEPARTMENTO-PUBLIC WORKS OF MASSACHUSE ITS
PIVISION O- WATERWAYS
SEPTEMBER 1957
ALWER WATERWAYS ENGINEER.

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049-007-000-112-100 049-007-000-112-200. 049-007-000-112-300



APPROX. SURFACE OF EXISTING GROUND IS SHOWN THUS, TITTED.

DESIGN FOR STEEL REINFORCING AND FOR CONCRETE NEW WAYS, EXPANSION JOINTS, ETC. TO BE OF ACCEPTED, APPROVED STANDARDS.

PAVING FOR ENTRANCE ADAGMAY AND APPROACH SLOPE TO BE OF SUITABLE BITUMINOUS CONCRETE IN TWO IZINCH LAYERS, A TOTAL OF 3 INCHES.

PROPOSED BOAT RAMP RODNEY FRENCH BLVO.-WEST CLARK COVE

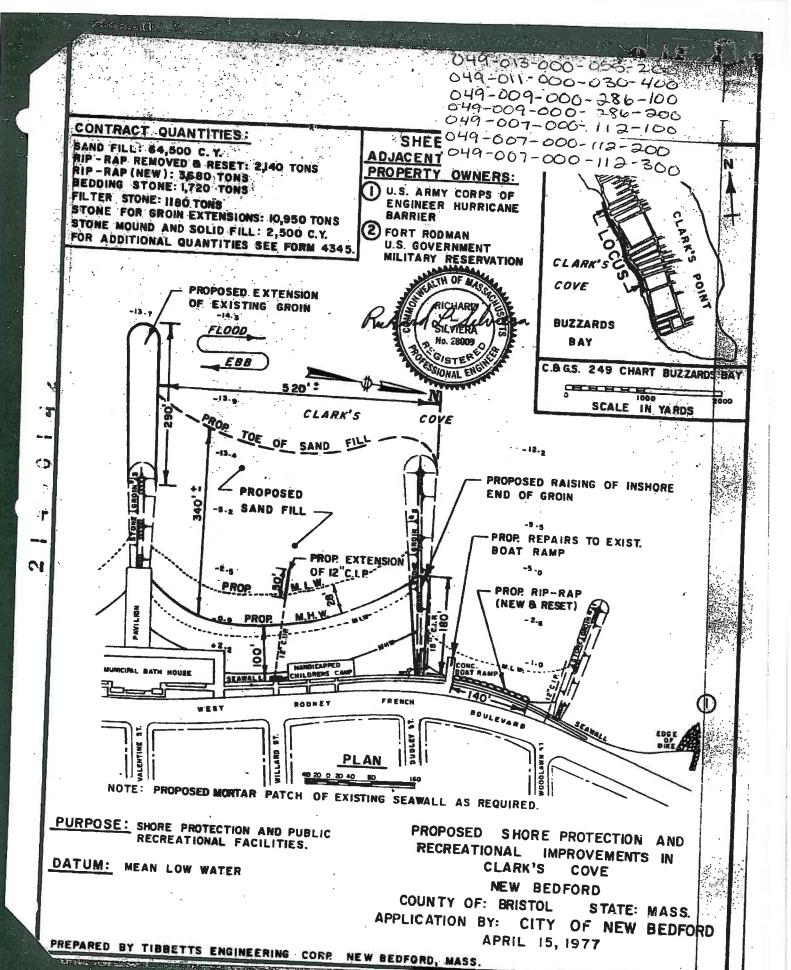
NEW BEDFORD - MASS.

DEPARTMENT PUBLIC WORKS IN MASSACHUSETTS

DIVISION OF WATERWAYS

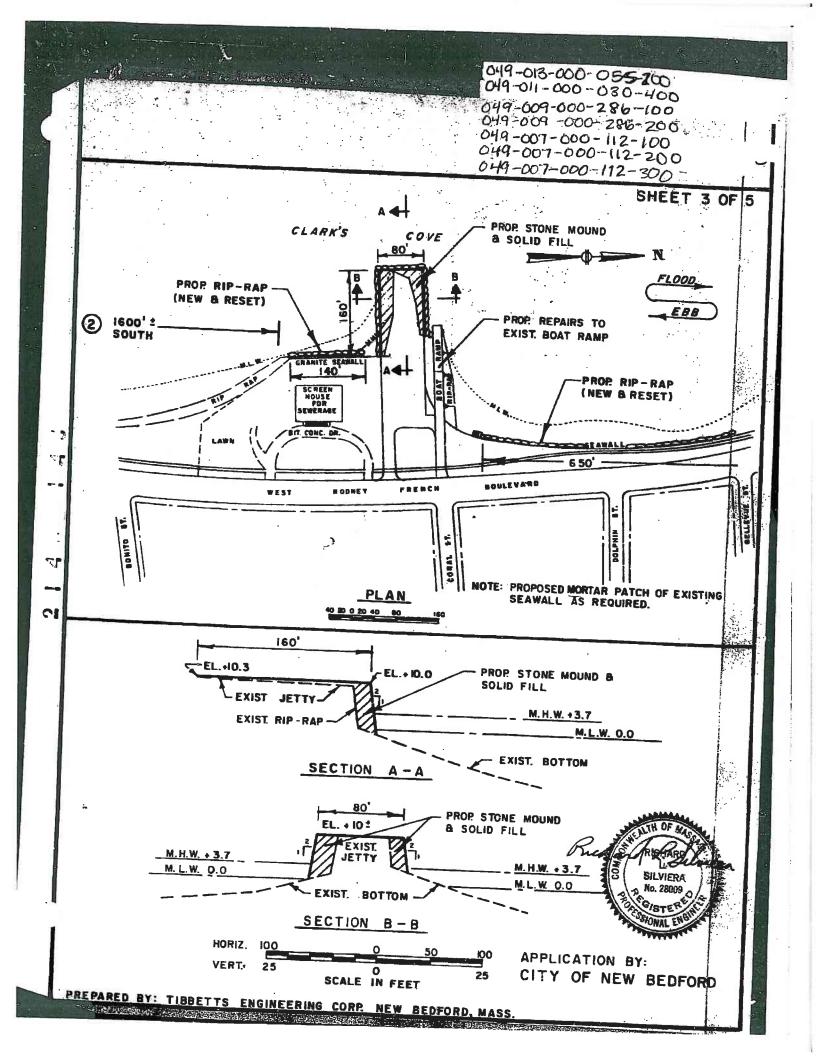
SEPTEMBER 1957

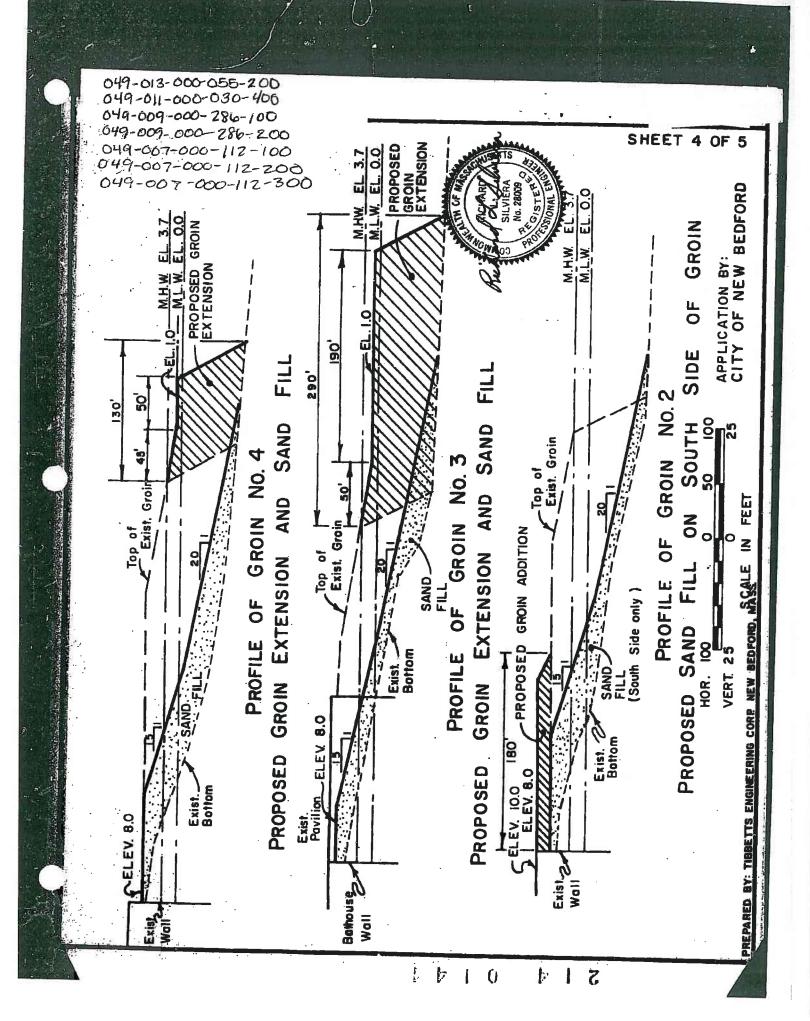
CHIEF WATERWAYS ENGINEER.

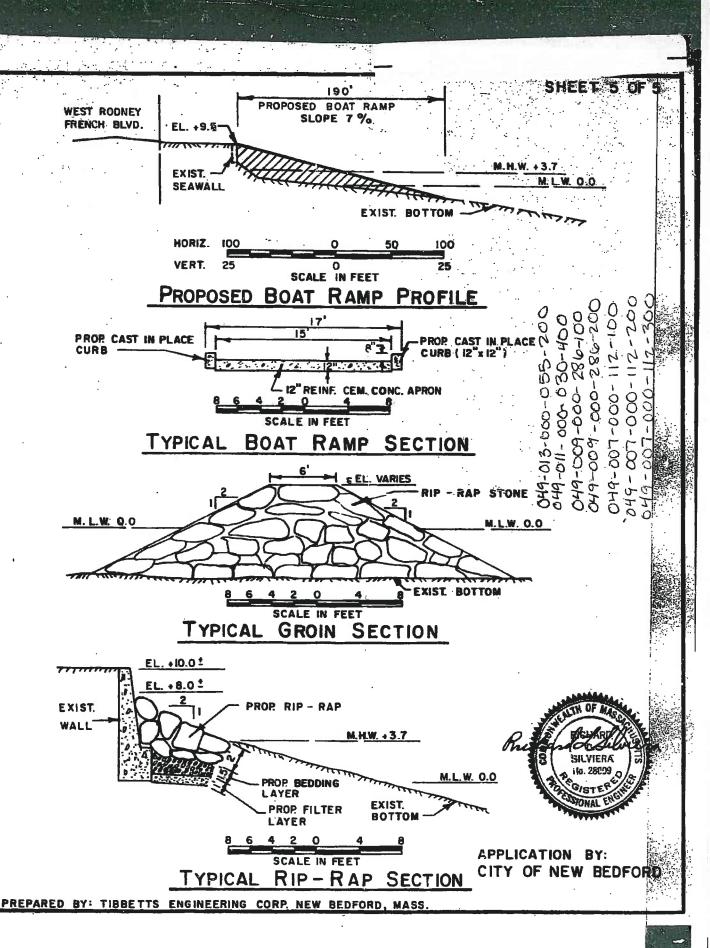


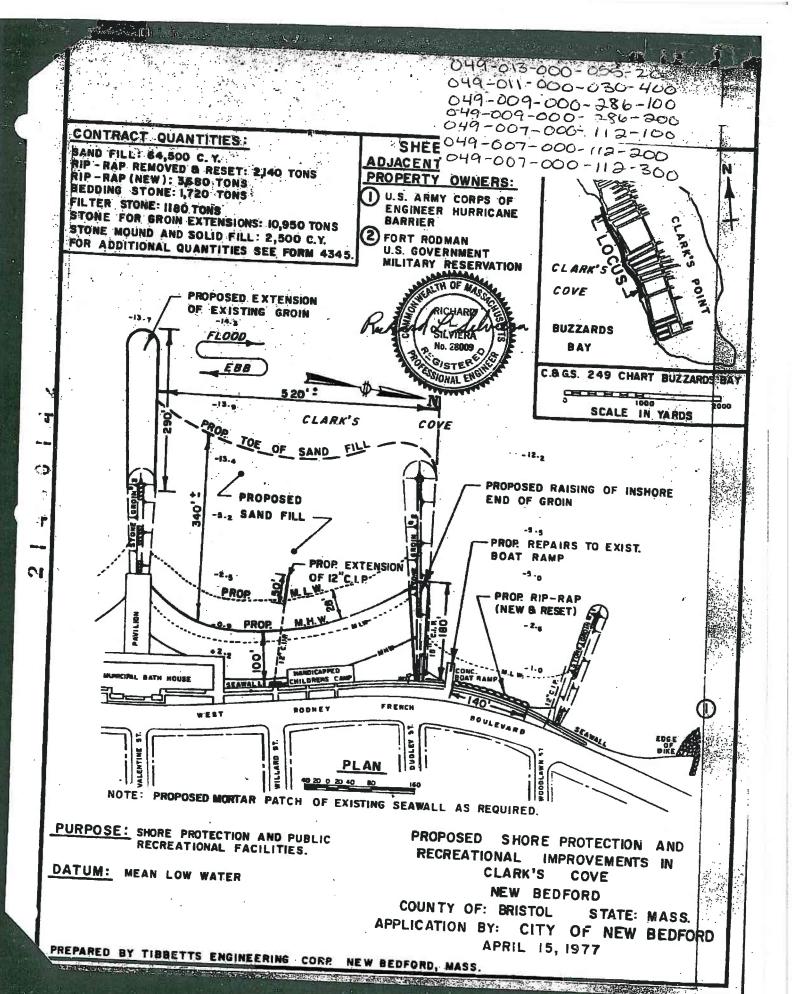
049-011-000-030-400 049-009-000-286-100 049-009-000-286-200 049-007-000-112-100 049-007-000-112-200 SHEET 210FS H OF 520 PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN FLOOD 830 SILVIERA GROIN No. 28009 EBB ROP OF ESSIONAL ET TOE -11. 5 PROP. REMOVAL OF SAND FILL BOAT RAMP & BUILD REIN. CONC. SEAWALL PROP. EXTENSIO OF 12"CLP PROP PROF PROP. PROP. RIP-RAP PROP (NEW-B-RESET) HOUSE SOUL EVARD FRE MCH WEST NOTE: PROPOSED MORTAR PATCH EXISTING SEAWALL AS REQUIRED. LUCAB HAZELWOOD TO GROIN PROP BOAT RAMP(I7'WIDE) CLARK'S COVE FLOOR PROP RIP-RAP (NEW B RESET) PROP REMOVAL OF EBB BOAT RAMP & BUILD PROP TOE OF REIN, CONC. SEAWALL SAND FILL-PH PROP. RIP-RAP M.L (NEW & RESET) PROP RIP-RAP (NEW & RESET) PROP BIT PARKING 650 RODNEY WEST NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS TOUTONECK REQUIRED. PLAN APPLICATION BY: CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

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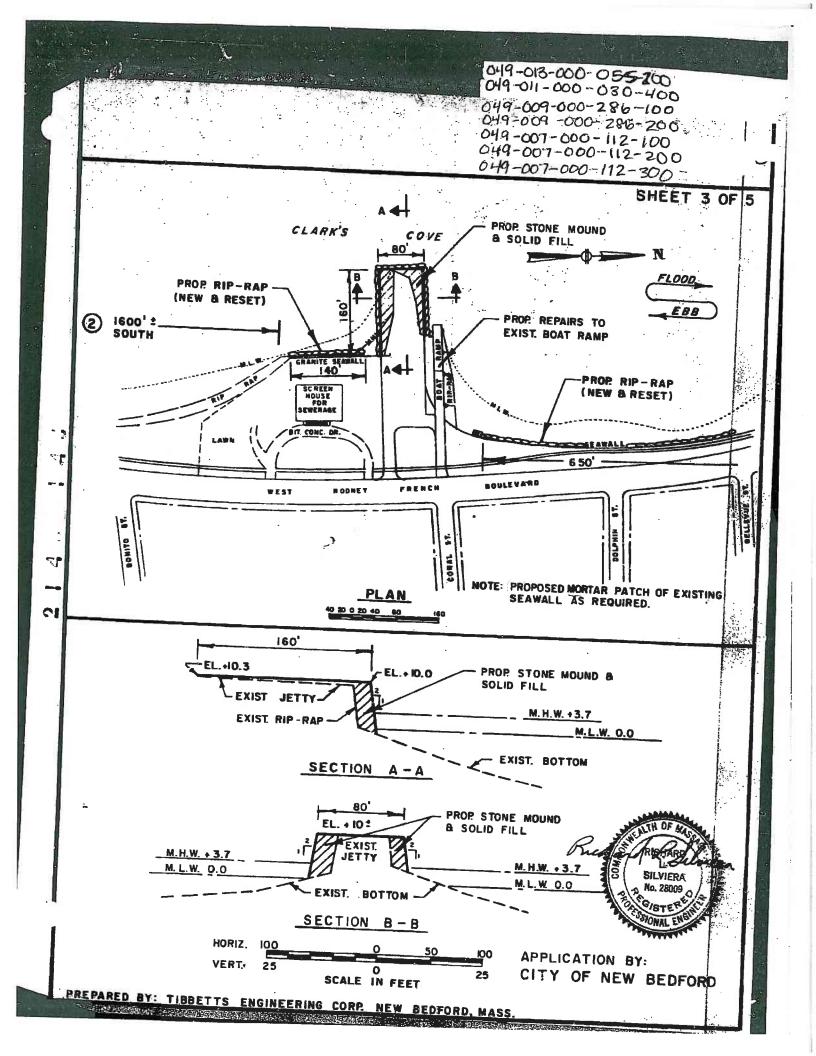


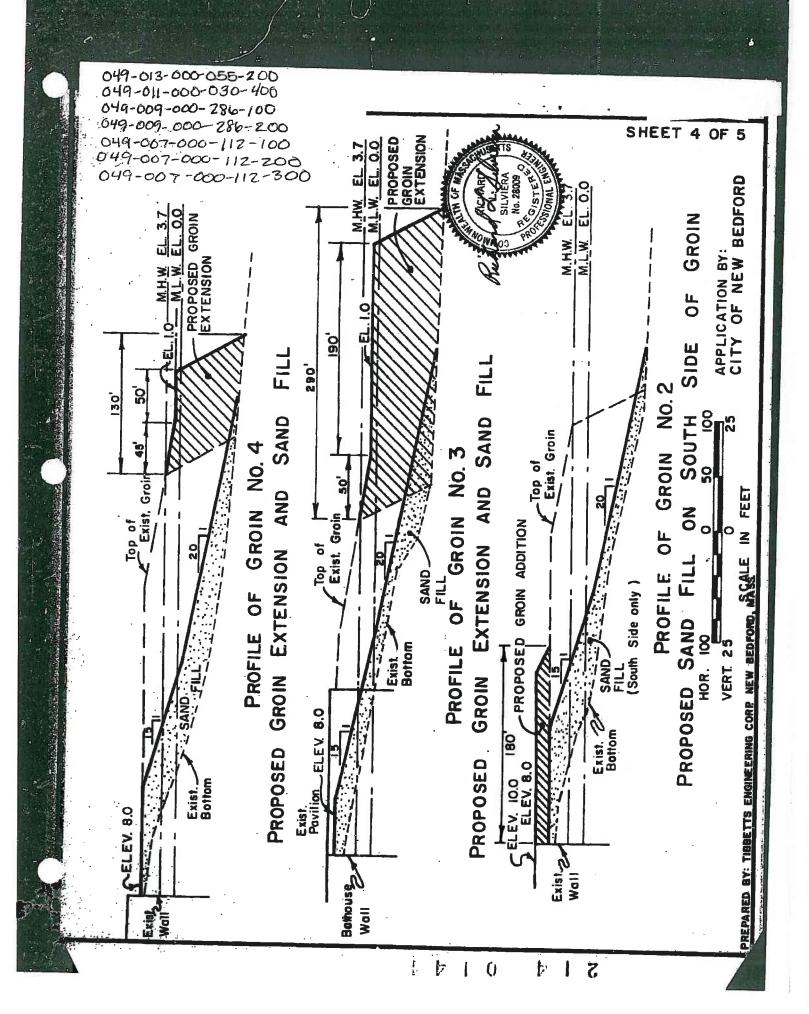


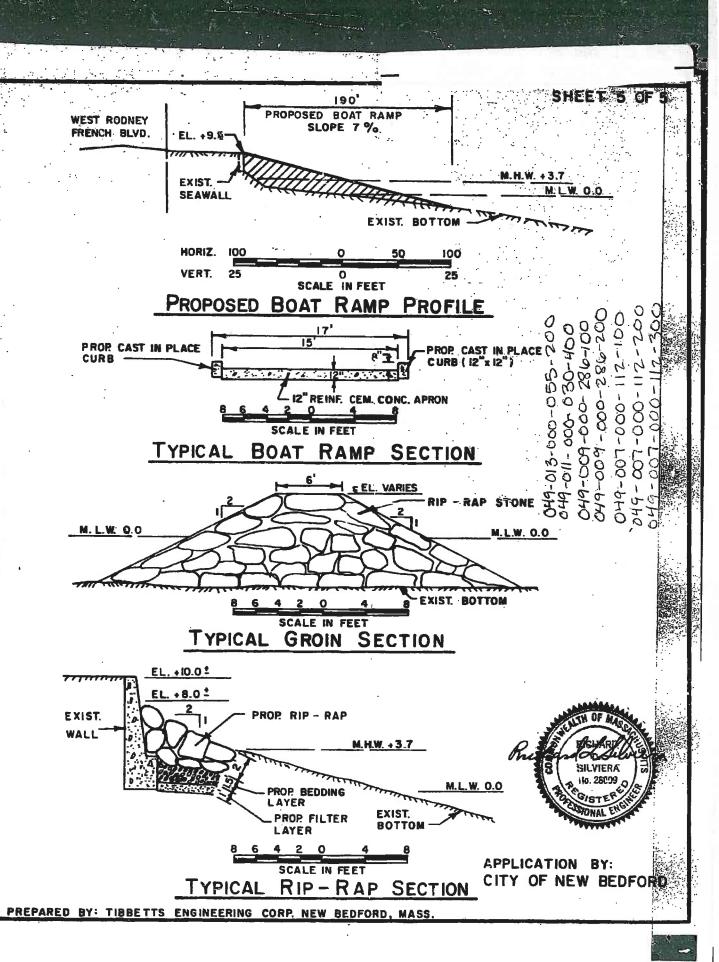


049-011-000-030-400 049-009-000-286-100 049-009-000-286-200 049-007-000-112-100 049-007-000-112-200 SHEET 520' ± H OF 210F PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN FLOOD. SILVIERA GROIN No. 28009 EBB ESSIONAL ES OF PROP REMOVAL OF PROP. SAND BOAT RAMP & BUILD REIN. CONC. OF -8.7 SEAWALL 0 PROP EXTENSION OF 12"CLP PROP PROP PROP. PROP RIP-RAP (NEW-&-RESET) CONC. HOUSE SOUL EVARD FRE BCH WEST NOTE: PROPOSED MORTAR PATCH ROPHET Ë EXISTING SEAWALL AS REQUIRED. PL AN HAZELWOOD TO GROIN PROP BOAT RAMP(17 WIDE) CLARK'S COVE FLOOR PROP RIP-RAP (NEW B RESET) PROP. REMOVAL OF SOAT RAMP & BUILD E88 PROP TOE OF REIN. CONC. SEAWALL SAND FILL-PROP RIP-RAP (NÉW & RESET) PROP RIP - RAP (NEW & RESET) PROP BIT PARKING 650 RODNE WEST CAPITOL NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS TOUDNECK REQUIRED. PLAN APPLICATION BY: CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

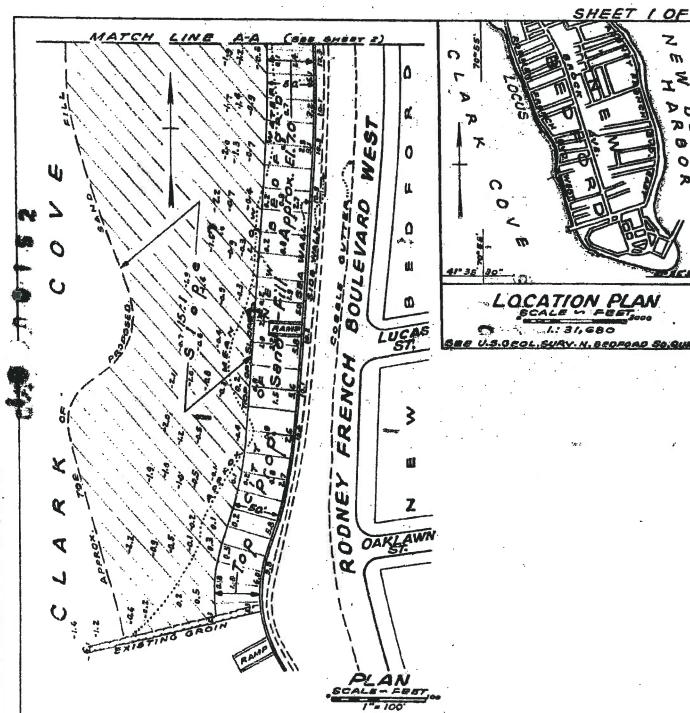
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049-011-000-030-400 049-009-000-286-200



NOTE

ELEVATIONS ARE IN FEST AND TENTHS AND SHOW HEIGHTS ABOVE PLANE OF MEAN LOW WATER, MINUS FIGURES SHOW DEPTHS BELOW SAME PLANE. SEE SHISET & FOR SAND FILL SECTIONS. LOCATION OF PROPOSED WORK SHOWN IN RED.

PROPOSED SAND FILL ATO GROINS
NEY FRENCH BLVO, WEST
CLARK COVE
NEW BEDFORD MASS OFPUBLIC WORKS OF MASSACHUSETTS DIVISION OF WATERWAYS MAY -1958 CRO Marxing ENGINEER

CHIEF

SHEET 2 OF 4 0 * 2

NOTE
ELEVATIONS ARE IN FEET AND TENTHS
AND SHOW HEIGHTS ABOVE PLANE OR
MEAN LOW WATER, MINUS FIGURES
SHOW DEPTHS BELOW THE SAME PLANE.
SEE SHEET & FOR PROFILE-SECTIONS.
LOCATION OF PROPOSED WORK SHOWN
IN REO.

PERPOSED

SAND FILL TO GROWS

RODNEY FRENCH BLVD. WEST

CLARK COVE

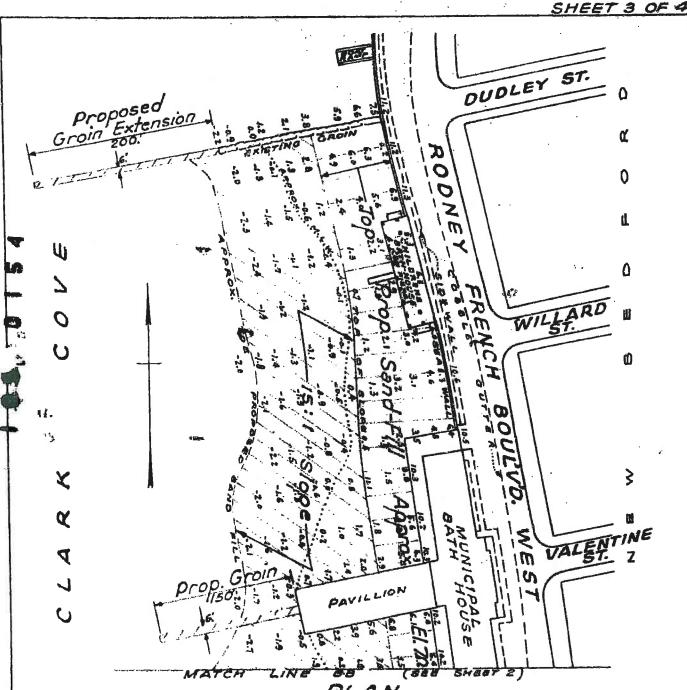
NEW BEDFORD, MASS.

APPLICATION BY

DEPARTMENTOS PUBLIC MASSACAUSETTS

DIVISION OF WATERWAYS
MAY - 1958

CHIEF WATERWAYS ENGINEER



NOTE ELEVATIONS ARE IN FEET AND TENTHS AND SHOW HEIGHT ABOVE PLANE OF MEAN LOW WATER. MINUS FIGURES SHOW DEPIHS BELOW SAME PLANE, SEE SHEET & FOR PROFILE-SECTIONS. LOCATION OF PROPOSED WORK SHOWN IN RED.

PALE-PEST 1"= 100

PROPOSED SAND FILL EMP GROINS RODNEY FRENCH B'LVD. - WEST CLARK COVE NEW BEDFORD-MASS. DEPARTMENTO PUBLIC WORKS OF MAJSACHUSETTS MAY -1958

> CHIEF WATERWAYS ENGINEER

0.85 1 171 049-011-000-030-400 049-009-000-286-200 SHEET 4 OF 4 VARVES #4. #.7 TO 8.0 Proposed Groins 2'MIM Y Z'MIM M.L.W. \$6.0.0 TYPICAL SECTION- GROUND ABOVE M.L.W. SCALES-FEET-BOTH SECTIONS VARIES EL. 37 TO 8.0 M. H. W. 64. 8.7 M.H.W. EL. 3.7 M. L. W. EG. O.O 4. L. W. EL. Q.Q m CTION - GROUND BELOW M.L.W. VARIES 50 70 100' FL. 8.0 MINISTER .. Proposed Sand Fill. M.L.W. 81.0.0 TYBICAL SECTION-SAND FILL-NO SCALE EXISTING GROIN 200' EXTENSION OVERLAP 100 EXISTING MH.W. EL. 87 MH.W. EL.3.7 Proposed | Stroin Extensions M.L.W. EL. 0.0 F4.00 SCALES- FEET- BOTH PROFILES HOR. " 100" VER. " 20" NAVIGATION MARKERS 3 x 3 x 7 TYPICAL PROFILE- GROIN EXTENSIONS EXISTING Proposeo PAVILLION

M.M.W.

M.L.W.

PROFILE - NEW GROIN

Proposed

NOTE

ELEVATIONS IN FEET AND TENTHS

REFER TO PLANE OF MEAN LOW WATER,

APPROX. EXISTING GROUND THUSTITE

SEE SHEETS 1,2, AND 3 FOR PLAN VIEWS.

OUTER LIMITS OF WORK TO BE DONE

ARE SHOWN IN RED.

PROPOSED

SAND FILL 12 GADING

RODNEY FRENCH BLVD. WEST

CLARK COVE

NEW BEDFORD MASS.

APPLICATION BY

DEPARTMENT & ROUC WORKS & MASSACHUSETTS

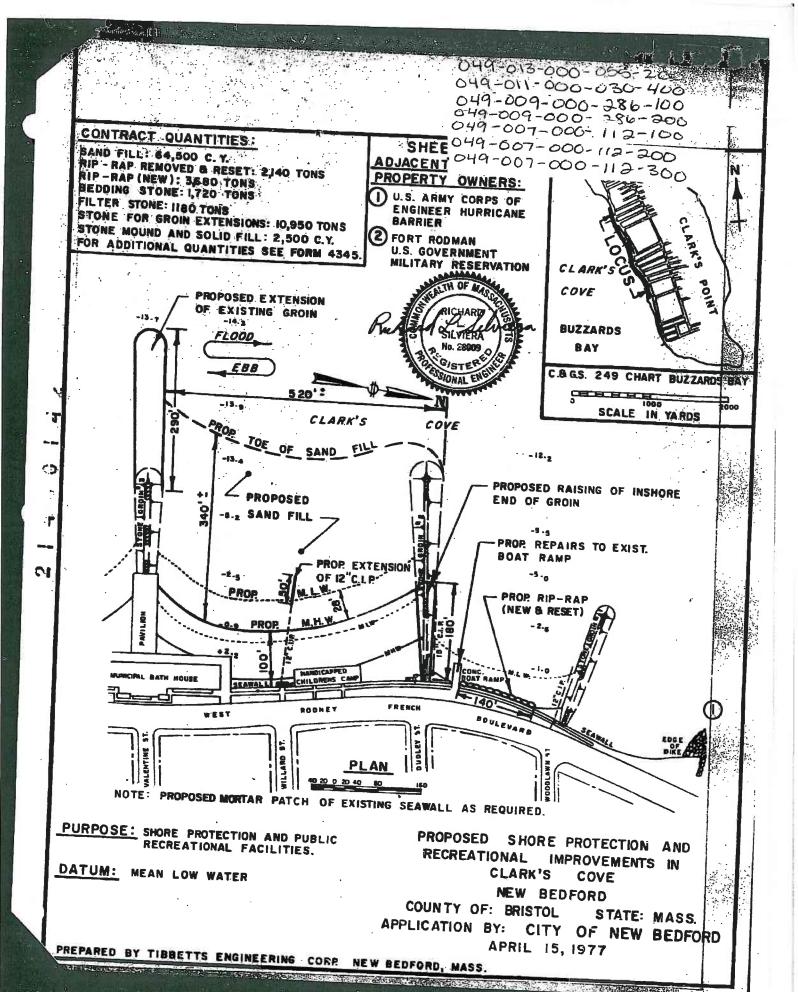
DIVISION & WATERWAYS

MAY 1958

GB Mackman

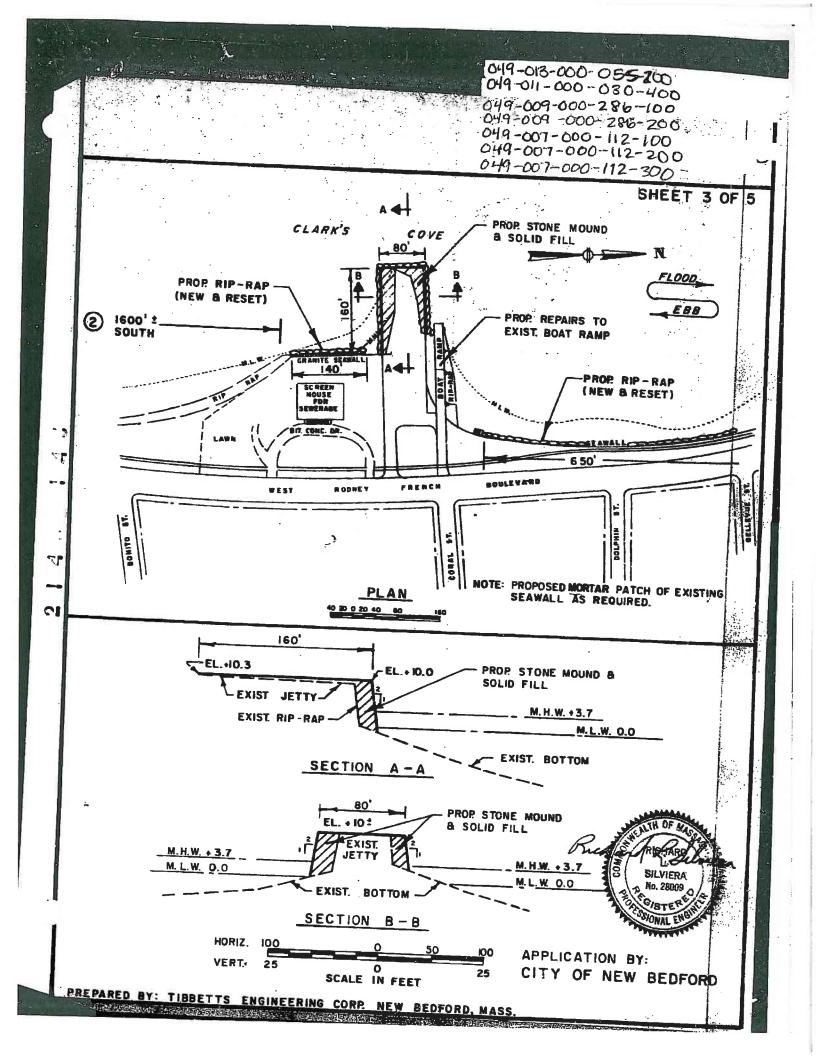
M. H. W. EL, 3.7

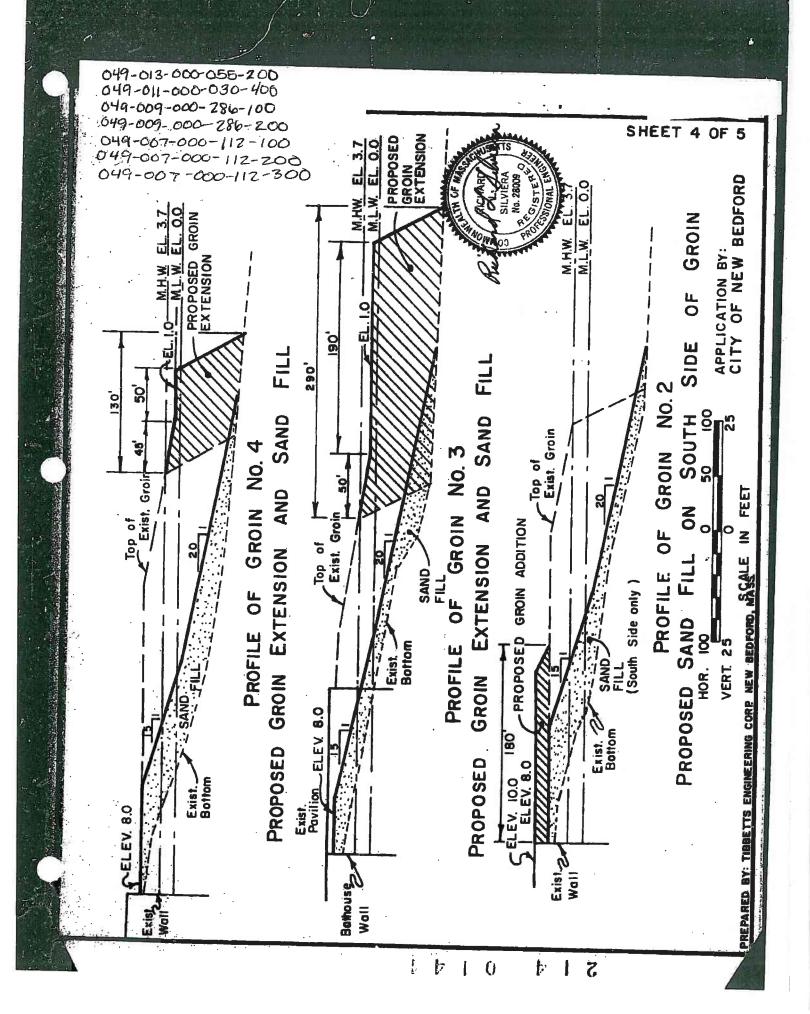
M.L. W. EL. 0,0

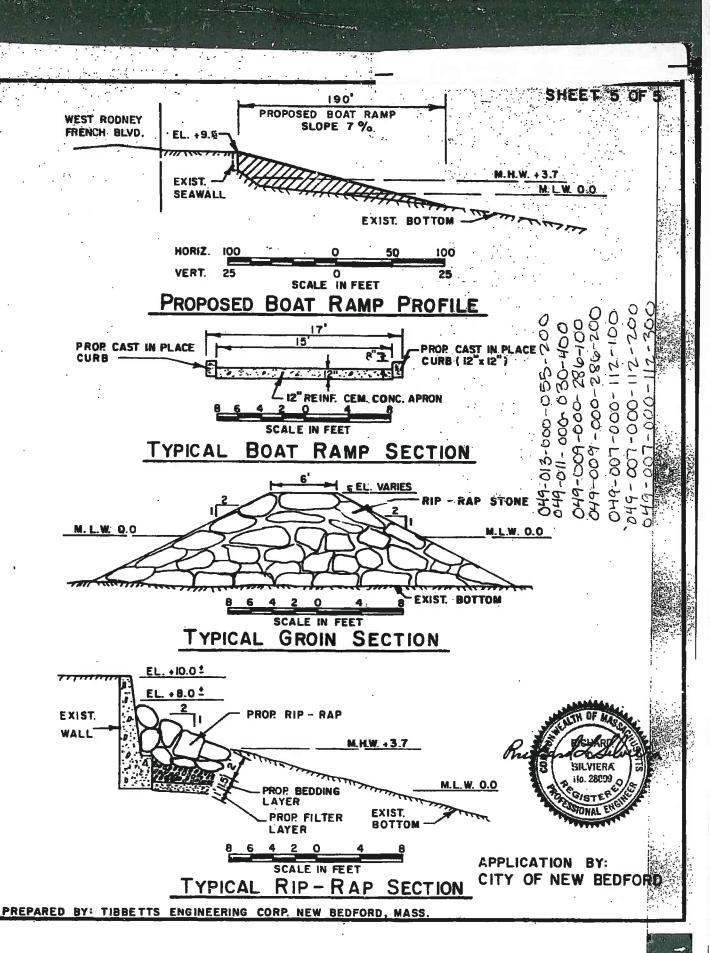


049-009-000-286-200 049-007-000-112-100 049-007-000-112-200 H OF SHEET 210F 5 520' ± PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN FLOOD SILVIERA GROIN No. 28009 EBB GISTER! PROP SSIONAL EN -II. g PROP REMOVAL OF PROP. SAND BOAT RAMP & BUILD REIN. CONC. -8.7 SEAWALL 9 PROP. EXTENSION OF 12"C.L.P. PROP PROP SAND PROP. PROP RIP-RAP (NEW-B-RESET) MURICIPAL HOUSE BOULEVARD WEST ROPHET NOTE: PROPOSED MORTAR PATCH EXISTING SEAWALL AS REQUIRED. PL AN HAZELWOOD TO GROIN PROP BOAT RAMP(17' WIDE) CLARK'S COVE FLOOR PROP. RIP-RAP (NEW & RESET) PROP REMOVAL OF BOAT RAMP & BUILD E88 PROP TOE OF REIN, CONC. SEAWALL SAND FILL-PROP. RIP-RAP (NEW & RESET) PROP RIP - RAP (NEW & RESET) PROP BIT PARKING FRENCH RODHEY 650 WEST NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS 4QUIDNECK REQUIRED. PLAN APPLICATION BY: 40 20 0 20 40 80 CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

049-013-006-055-200

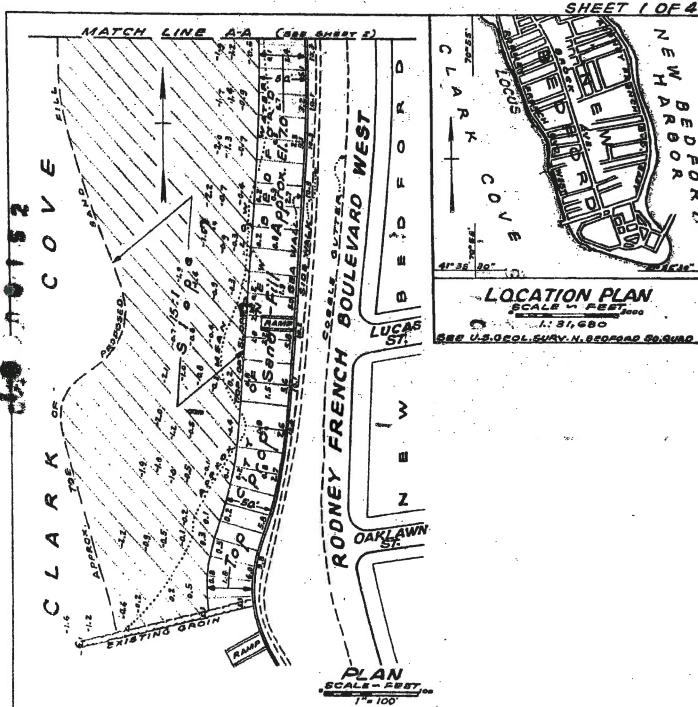






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049-011-000-030-400 049-009-000-286-200



NOTE

ELEVATIONS ARE IN FEET AND TENTHS AND SHOW HEIGHTS ABOVE PLANE OF MEAN LOW WATER, MINUS FIGURES SHOW DEPTHE BELOW SAME PLANE. SEE SHEET & FOR SAND FILL SECTIONS, LOCATION OF PROPOSED WORK SHOWN IN RED. FROPOSED

SAND FILL ATO GROINS

RODNEY FRENCH BLVO. WEST

CLARK COVE

NEW BEOFORD WASS

DEPARTMENT OF PUBLIC WORKS WASSACHUSETTS

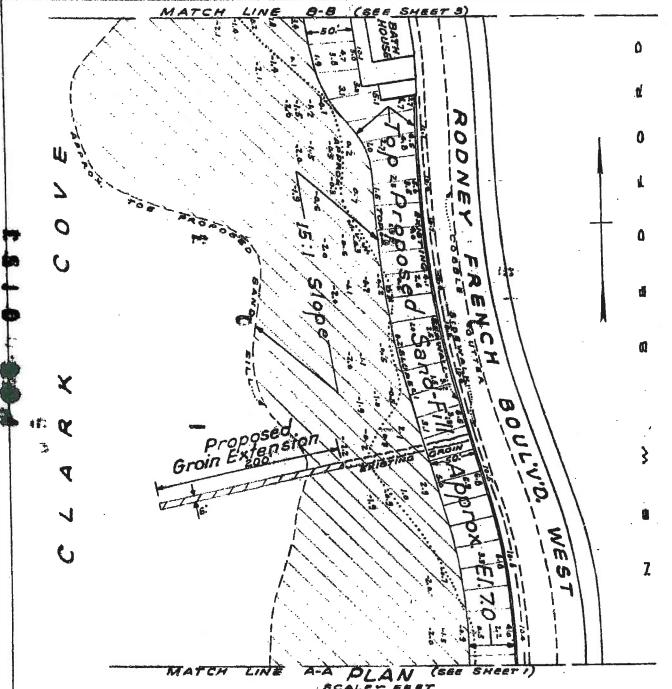
DIVISION WATERWAYS

MAY 1958

CHIEF WATERWAYS ENGINEER.

049-011-000-030-400 049-009-000-286-200

SHEET 2 OF 4

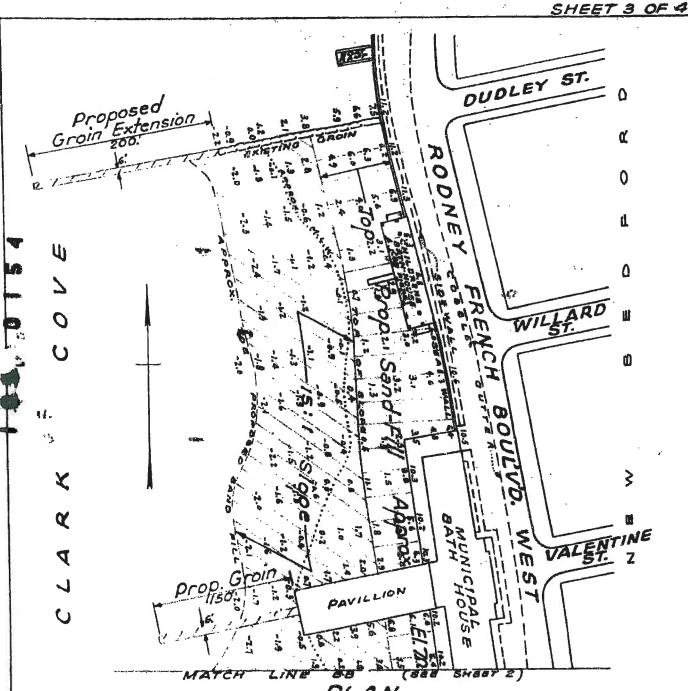


NOTE ELEVATIONS ARE IN FEET AND TENTHS AND SHOW HEIGHTS ABOVE PLANE OF MEAN LOW WATER. MINUS FIGURES SHOW DEPTHS BELOW THE SAME PLANE. SEE SHEET & FOR PROFILE-SECTIONS. LOCATION OF PROPOSED WORK SHOWN IN REO.

PRSPOSED SAND FILL THE GROINS
RODNEY FRENCH BLVO. WEST
CLARK COVE
NEW BEDFORD, MASS.
APPLICATION BY
DEPARTMENTS PUBLIC WORKS OF MASSACHUSETTS

DIVISION OF WATERWAYS

WATERWAYS ENGINEER



NOTE

ELEVATIONS ARE IN FEET AND TENTHS
AND SHOW HEIGHT ABOVE PLANE OF
MEAN LOW WATER. MINUS FIGURES
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LOCATION OF PROPOSED WORK SHOWN
IN RED.

PLAN SCALE-FEET

PROPOSED

SAND FI. L 200 GROINS

RODNEY FRENCH B'L'VO. - WEST

CLARK COVE

NEW BEDFORD-MASS.

APPLICATION BY

DELLE WORKS OF MASSACHISET

OFFICE TION BY OFFICE PUBLIC WORKS OF MAJSACHUSETTS OIVISION OF WATERWAYS MAJSACHUSETTS OIVISION OF WATERWAYS

CHIEF WATERWAYS ENGINEER

0.85 1 7 1 049-011-000-030-400 049-009-000-286-200 SHEET 4 OF 4 VARVES 41.8.2 TO 8.0 Proposed Groins 2'MIM "YZ'MIM M.L.W. FL.O.0 TYPICAL SECTION- GROUND ABOVE M.L.W. SCALES-FEET-BOTH SECTIONS VARIES EL. 37 TO 8.0 M.H.W. 84.8.7 M.H.W. EL. 3.7 1. L. W. 64. Q.Q m CTION -GROUND BELOW M.L.W. VARIES 50 70 100' EL, 8.0 ... MANUSCES Proposed Sand Fill TYBICAL SECTION-SAND FILL-NO SCALE EXISTING GROIN 200' EXTENSION OVERLAP 100 EXISTING M. H. W. EL. 3.7 M. H.W. EL. 3.7 Proposed | \Grain Extensions M.L.W. EL.O.O EL. 0.0 SCALES- FEET- BOTH PROFILES HOR. " 1"-100' VER. " 1"-20' NAVIGATION MARKERS 3×3×7 TYPICAL PROFILE- GROIN EXTENSIONS EXISTING PAVILLION Proposeo

M.M.W.

M.L.W.

PROFILE - NEW GROIN

Proposes

NOTE ELEVATIONS IN FEET AND TENTHS REFER TO PLANE OF MEAN LOW WATER, APPROX. EXISTING GROUND THURTHY

APPROX. EXISTING GROUND THUSTING SEE SHEETS 1,2, AND 3 FOR PLAN VIEWS. OUTER LIMITS OF WORK TO BE DONE ARE SHOWN IN REO.

PROPOSED

SAND FILL AM GROINS

RODNEY FRENCH BLVD. WEST

CLARK COVE

NEW BEDFORD MASS.

APPLICATION BY

DEPARTMENT & RIBLE WORKS & MASSACHUSETTS

DIVISION & WATERWAYS

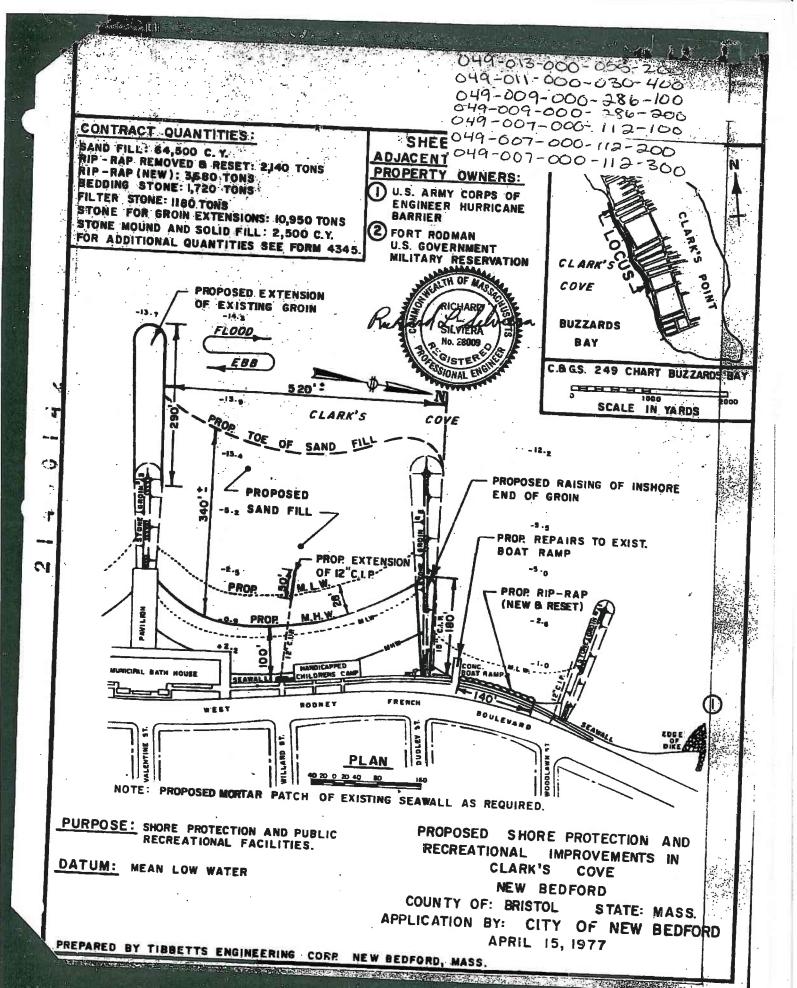
MAY 1958

68 Mackman

M.H.W EL. 3.7

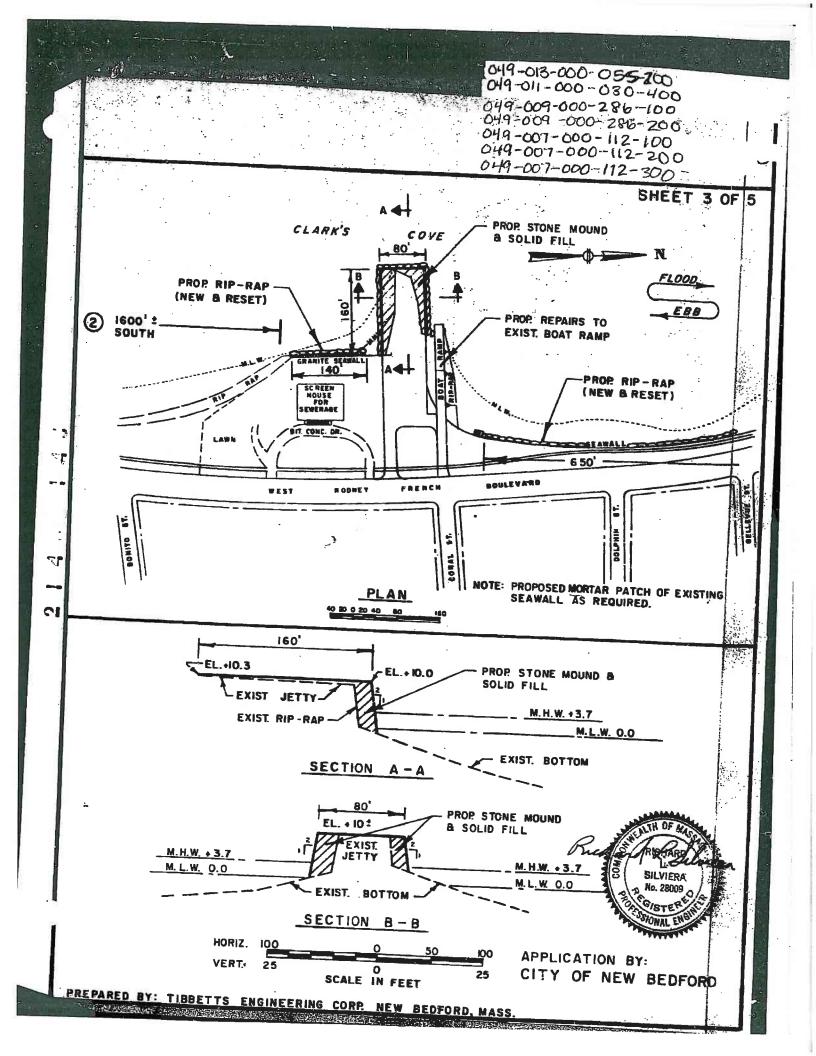
M.L. W. EL. 0,0

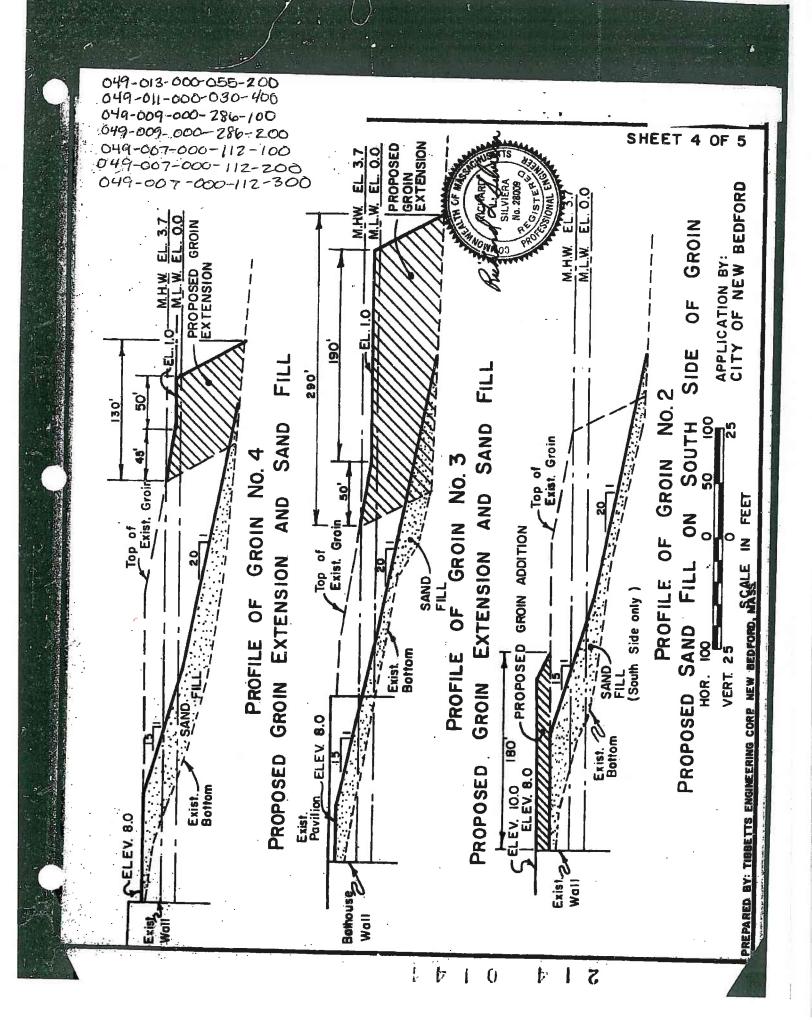
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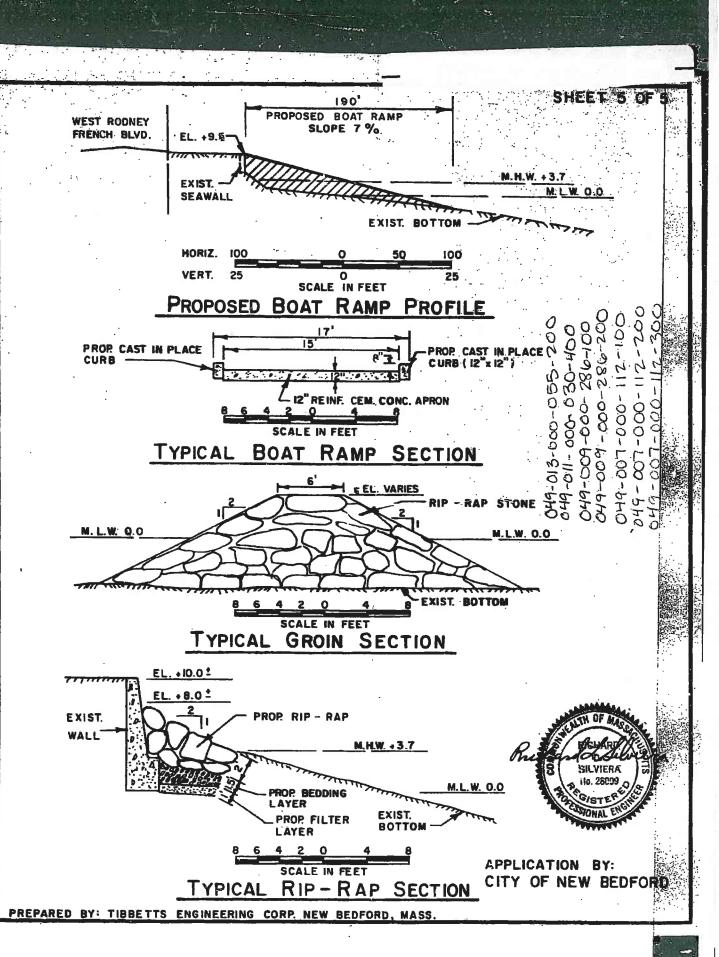


049-011-000-030-400 049-009-000-286-100 049-009-000-286-200 049-007-000-112-100 049-007-000-112-200 SHEET 210F 5 520' 1 H OF PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN FLOOD SILVIERA GR DIN No. 28009 EBB GISTER OF TOE ESSIONAL EN -11.2 PROP REMOVAL OF PROP. SAND FILL BOAT RAMP & BUILD REIN. CONC. OF SEAWALL PROP. EXTENSION OF 12"CLP PROP PROP SAND PROP PROP RIP-RAP PROP (NEW-8-RESET) CONC. HOUSE SOUL EVARD 600 WEST NOTE: PROPOSED MORTAR PATCH EXISTING SEAWALL AS REQUIRED. LUCAB HAZELWOOD TO GROIN PROP BOAT RAMP(17' WICE) CLARK'S COVE FLOOR PROP. RIP-RAP (NEW B RESET) PROP REMOVAL OF E88 BOAT RAMP & BUILD PROP TOE OF REIN. CONC. SEAWALL SAND FILL PH PROP. RIP-RAP MI (NEW B RESET) PROP RIP - RAP (NEW & RESET) PROP BIT PARKING RODNEY 650 WEST NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS AGUIDNECK REQUIRED. PLAN APPLICATION BY: 20 40 80 CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

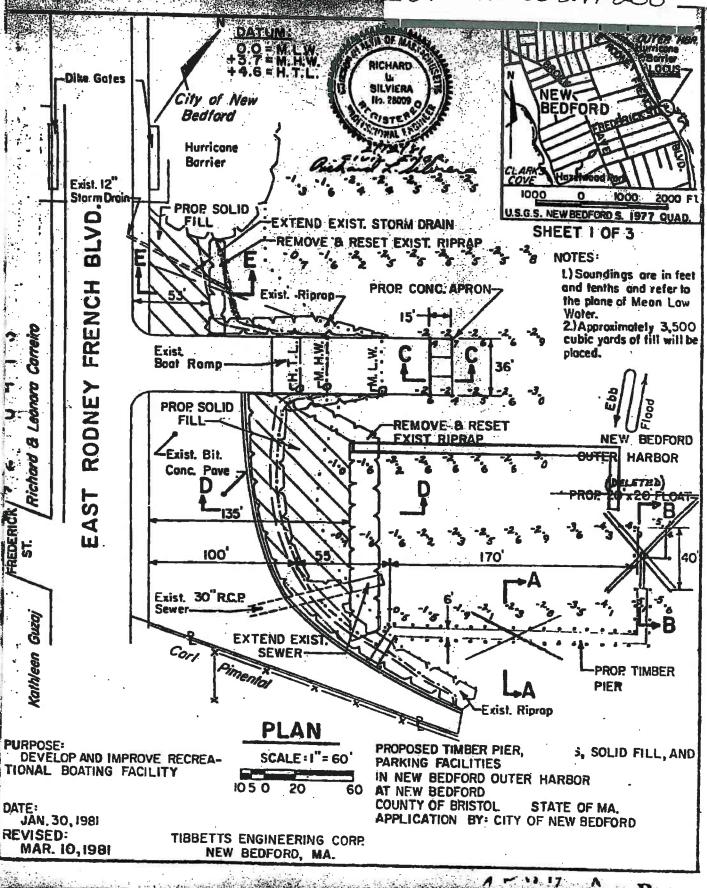
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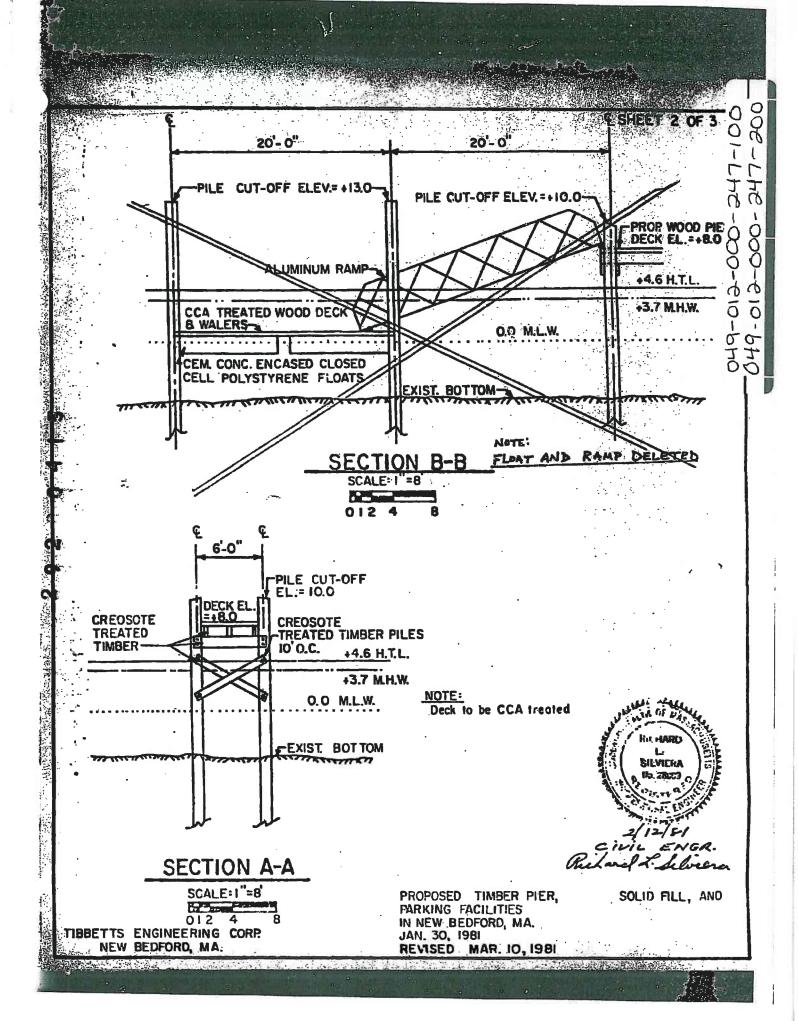


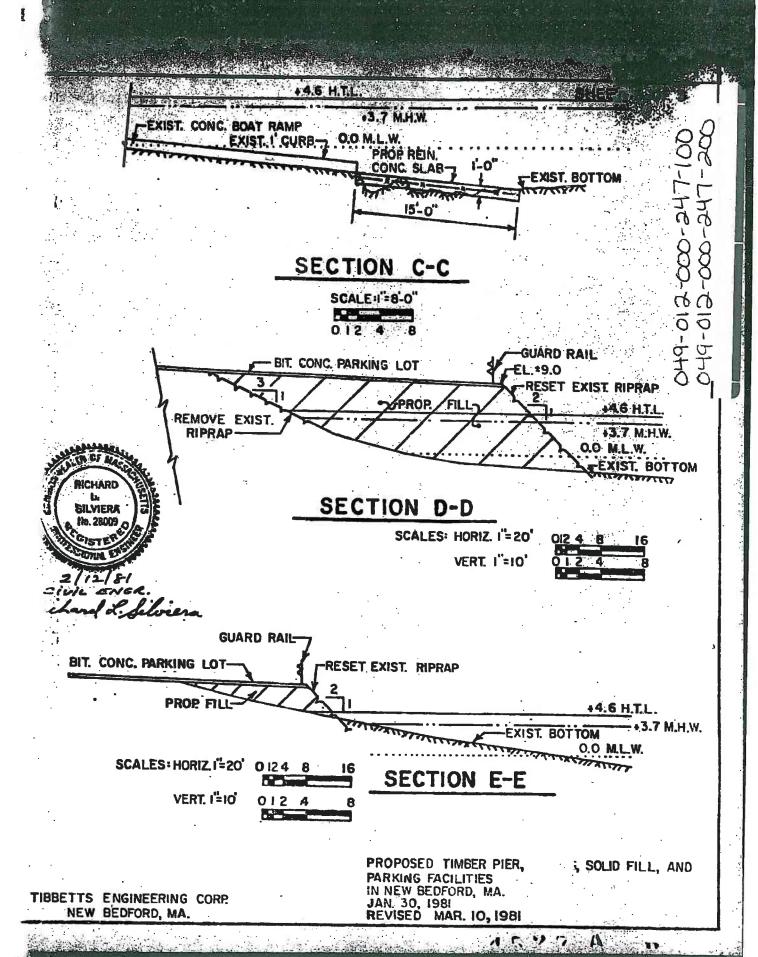




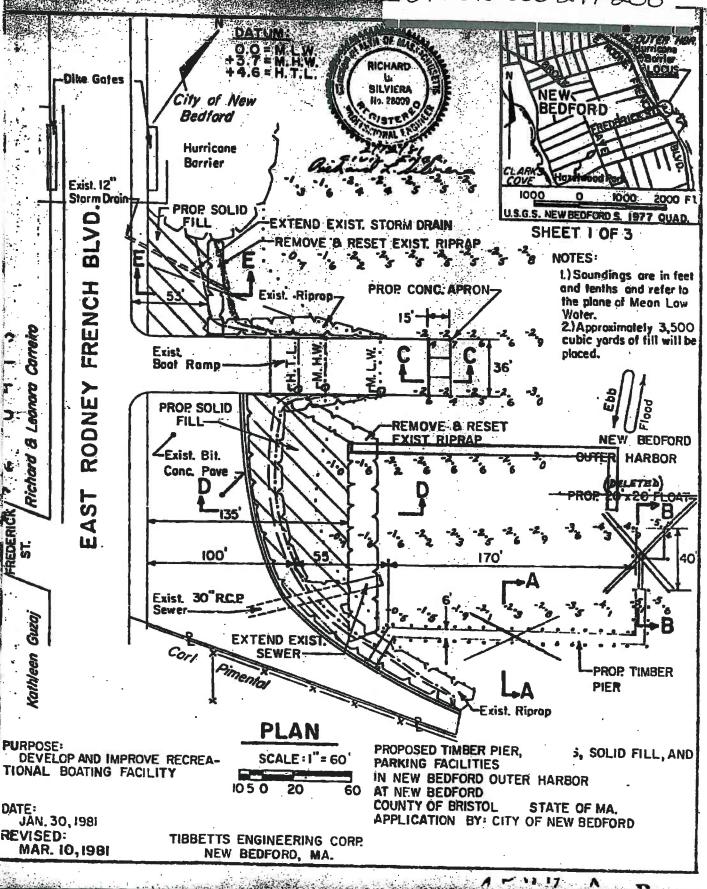
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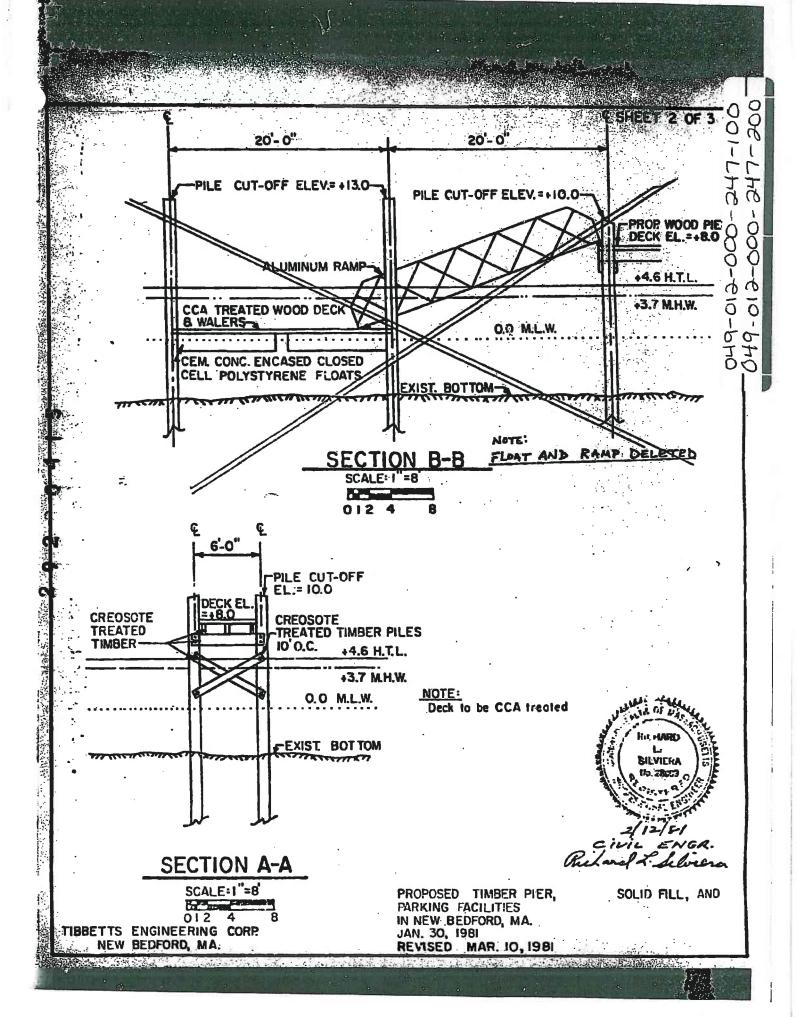


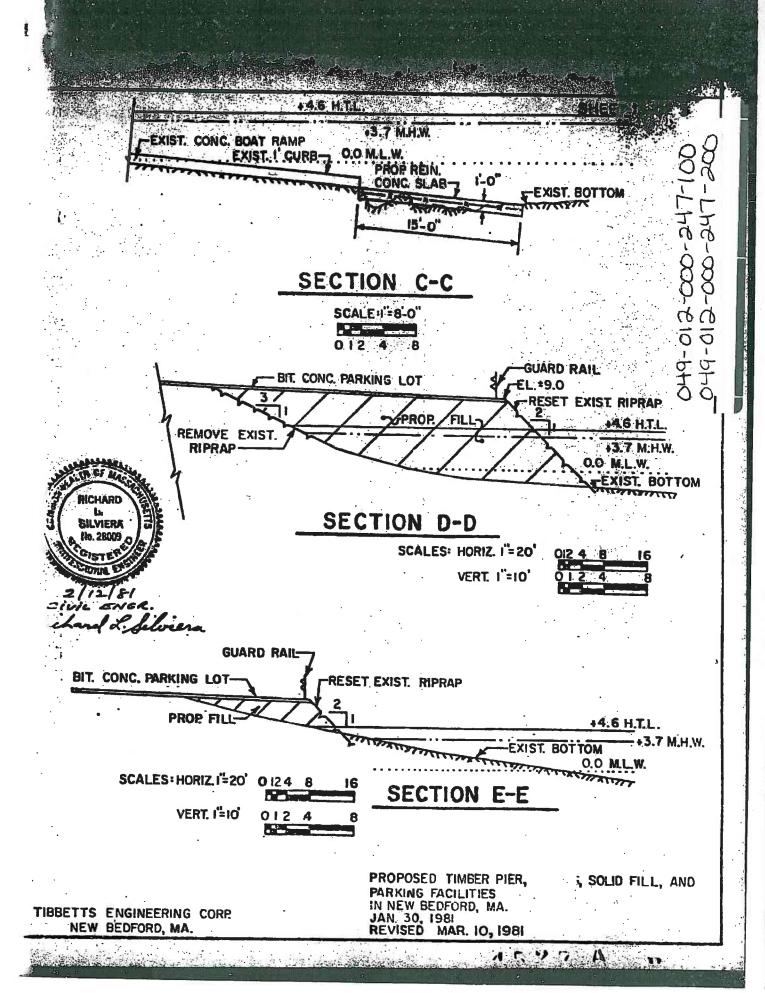


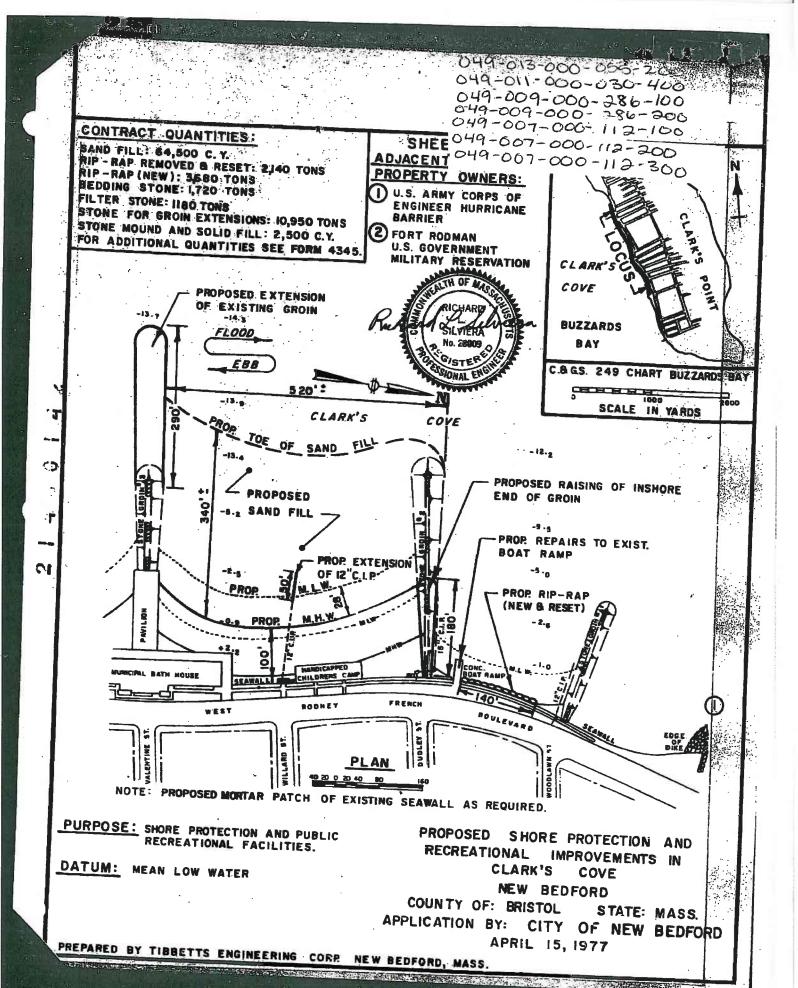


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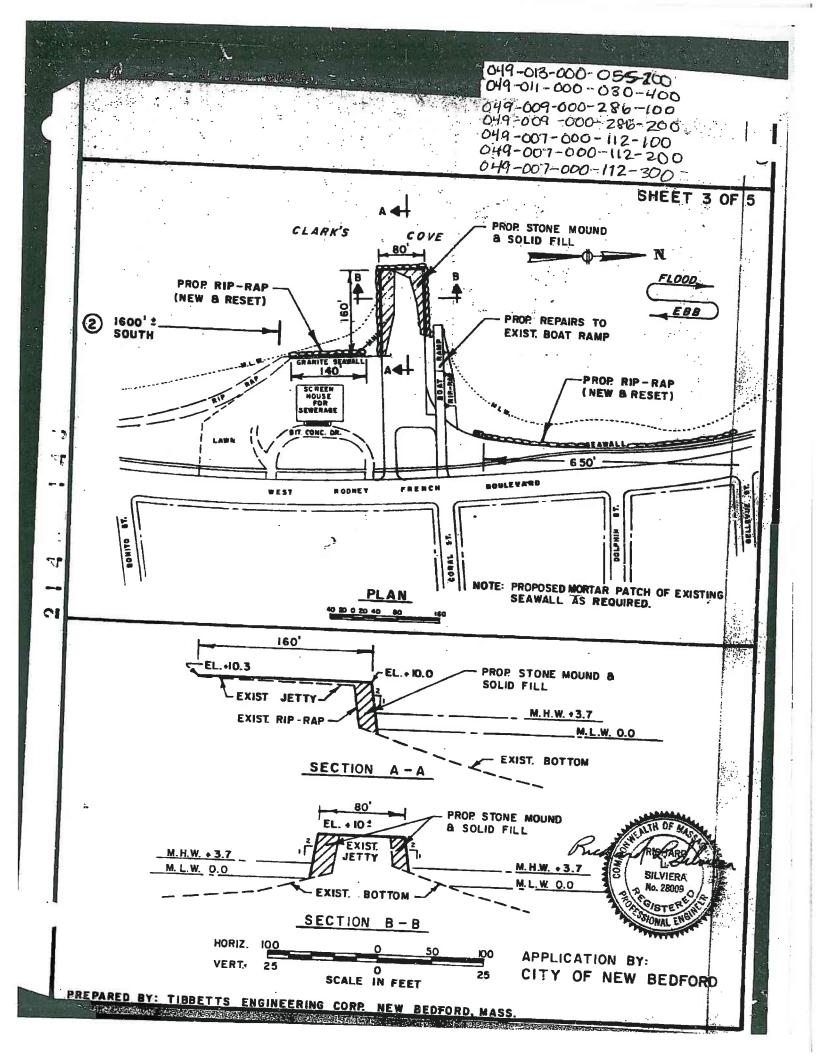


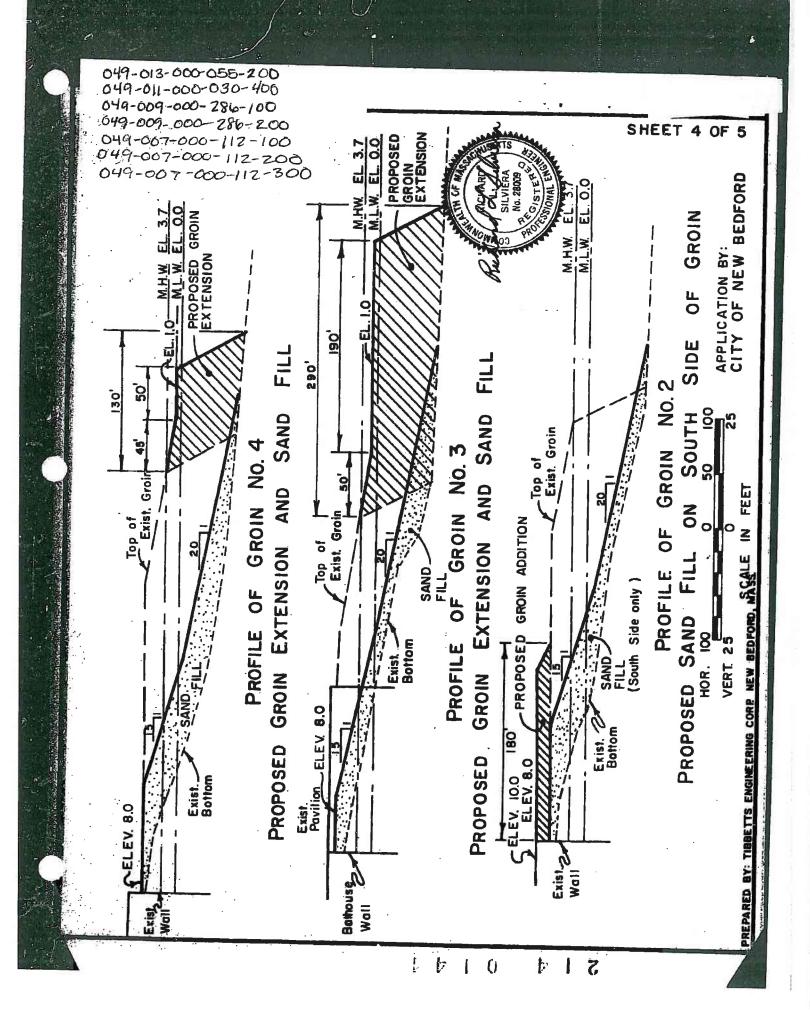


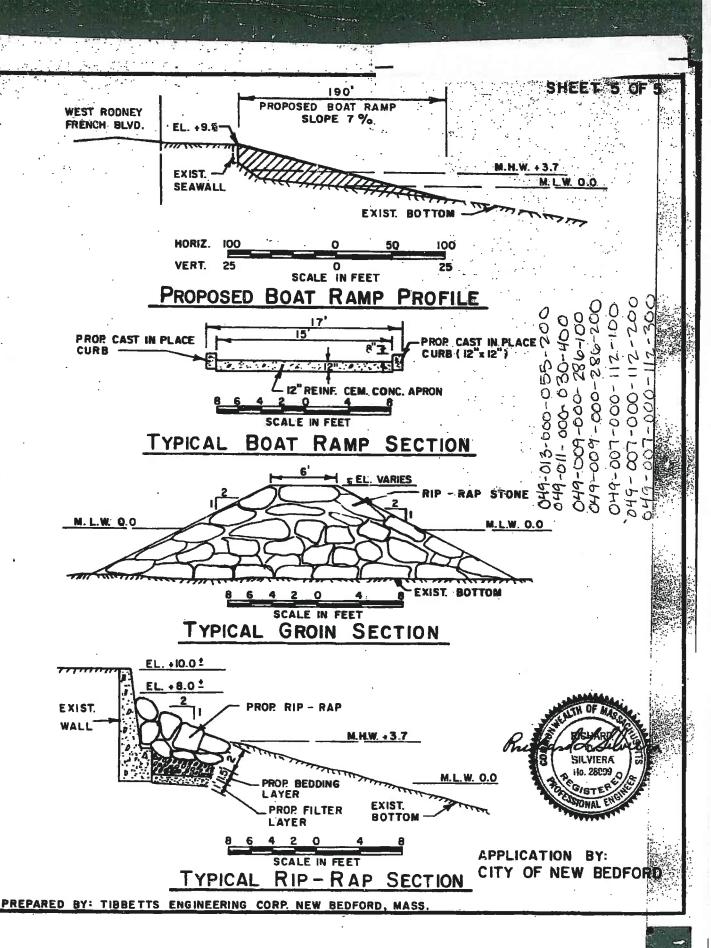


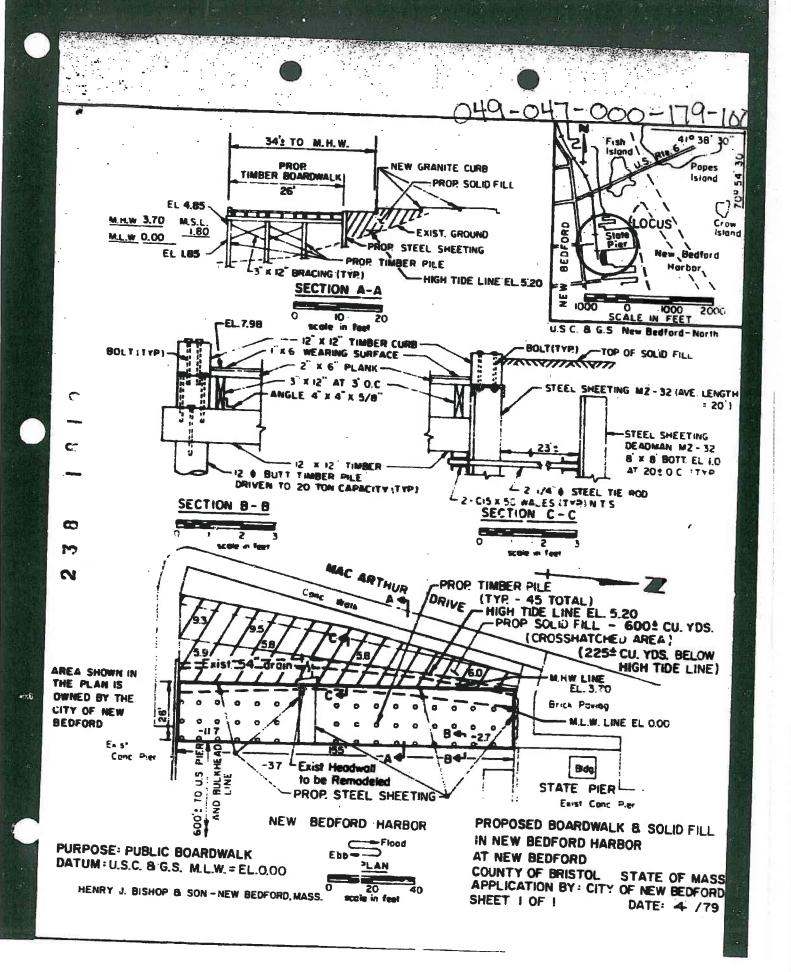
049-011-000-030-400 049-009-000-286-100 049-007-000-112-100 SHEET 520' -AH OF 21 OF PROP EXTENSION OF CLARK'S COVE RICHARD EXIST. GROIN FLOOD 830° SILVIERA GROIN No. 28009 EBB PROP ESSIONAL EN PROP. REMOVAL OF PROP. SAND BOAT RAMP & BUILD REIN. CONC. -8.7 SEAWALL PROP EXTENSION OF 12"C.I.P. PROP PROP PROP. PROP. RIP-RAP PROP (NEW-8-RESET) CONC. HOUSE BOULEVARD WEST NOTE: PROPOSED MORTAR PATCH ROPRET EXISTING SEAWALL AS REQUIRED. LUCAB PL AN HAZELWOOD TO GROIN PROP BOAT RAMP(I7 WIDE) CLARK'S COVE FLOOR PROP. RIP-RAP (NEW B RESET) PROP REMOVAL OF BOAT RAMP & BUILD E88 PROP TOE OF REIN, CONC. SEAWALL SAND FILL-PROP. RIP-RAP (NEW & RESET) PROP RIP - RAP (NEW & RESET) PROP. BIT. PARKING 650 RODNE NOTE: PROPOSED MORTAR PATCH OF EXISTING SEAWALL AS HOUIDNECK REQUIRED. PLAN APPLICATION BY: CITY OF NEW BEDFORD PREPARED BY: TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS.

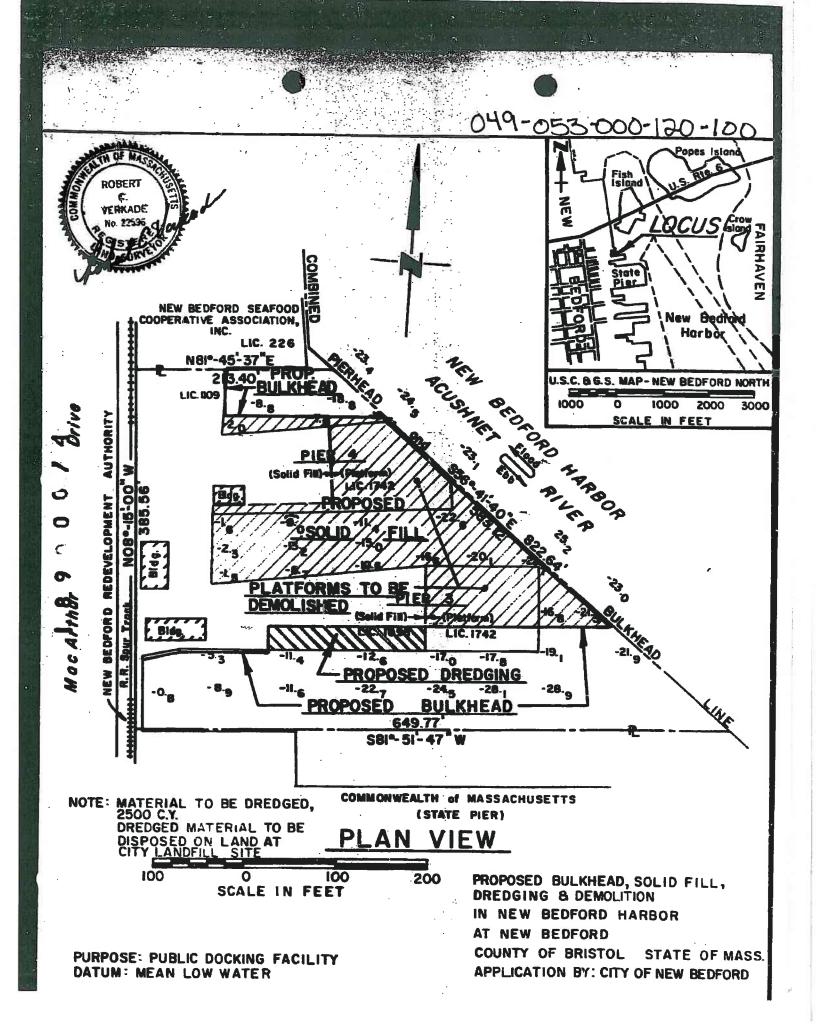
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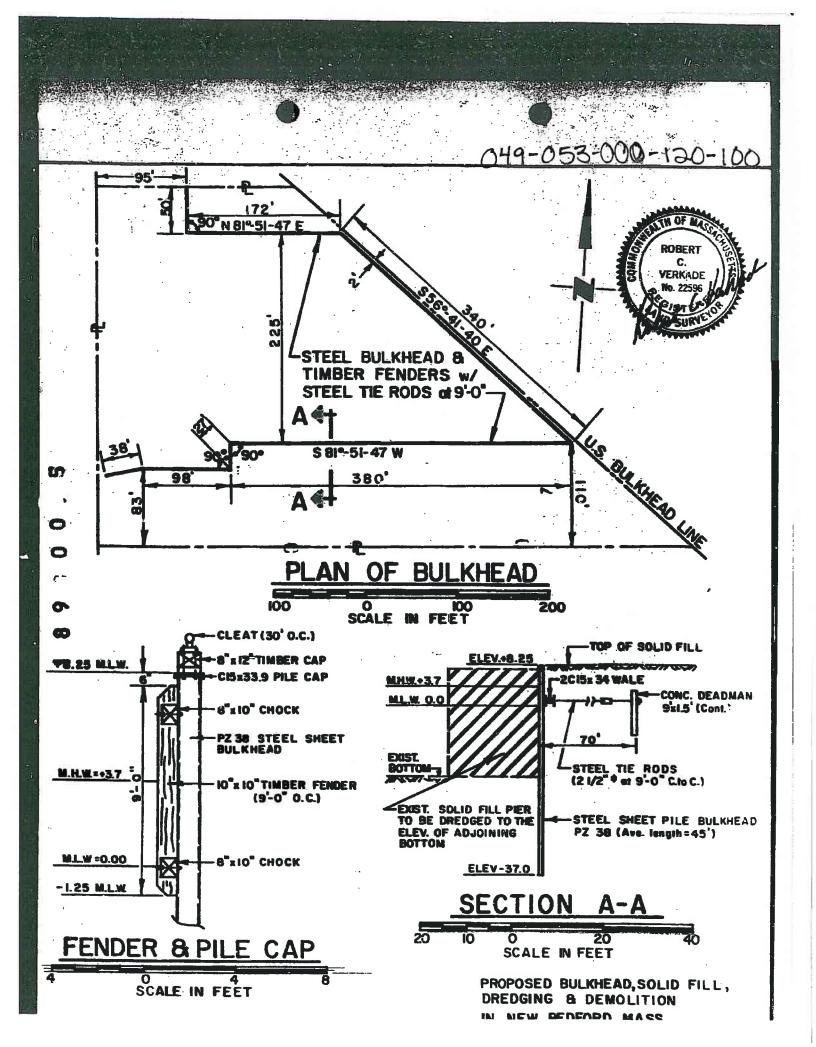








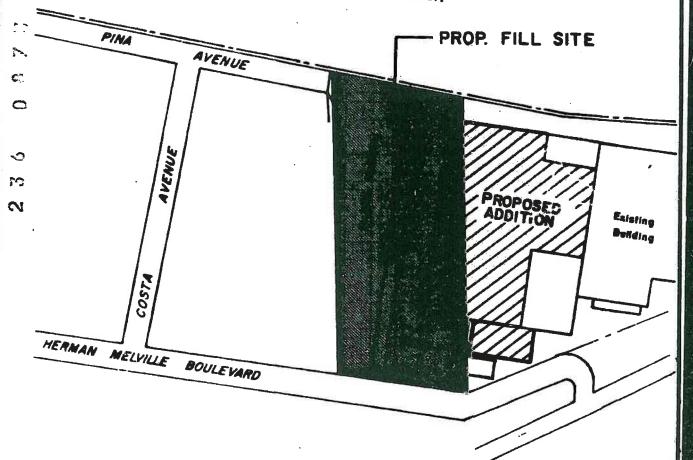




049-066-000-165-100

NEW BEDFORD HARBOR

ACUSHNET RIVER

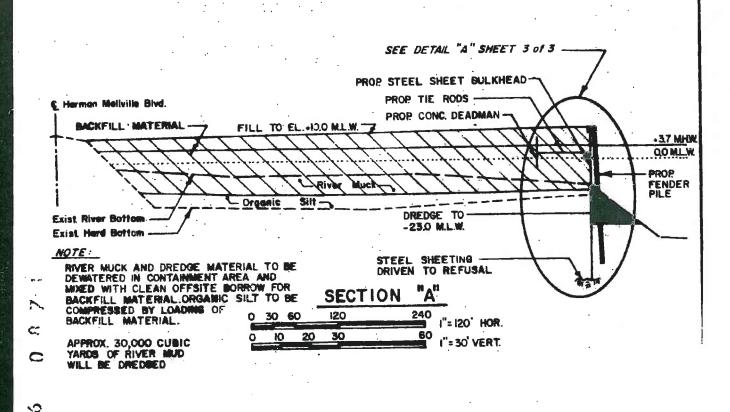


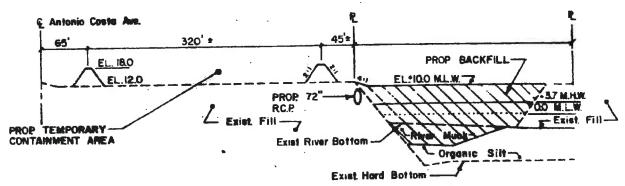
PLAN SCALE: 1=200

PROPOSED BUILDING EXPANSION

NORTH TERMINAL BULKHEAD EXTENSION

TIBBETTS ENGINEERING CORP. NEW BEDFORD, MASS







1 2

		SECT	ION	8	*	
30	60	120	24	10	i"= 120'	HOR

30 20 1"=30' VERT.

TIBBETTS ENGINEERING CORP NEW BEDFORD MASS.

APPLICATION BY :

THE CITY OF NEW BEDFORD

049-066-000-165-100

