# INSPECTION REPORT POPE'S ISLAND MARINA

NEW BEDFORD WATERFRONT FACILTIES INSPECTIONS NEW BEDFORD, MASSACHUSETTS



**MARCH 2009** 



#### **EXECUTIVE SUMMARY**

Pope's Island Marina is a timber "T-Pier" structure, provided with a system of floating docks. The marina opened in 1993 and provides 198 boat slips to the public.

Pare Corporation and Childs Engineering Corporation conducted the inspection of the site on November 20 & 21, 2008. In general, Pope's Island Marina pier structure was found to be in **Good** condition. Concerns and deficiencies at the site include corrosion of the low water connection hardware, minor rotting of the timber decking, wearing of the fender system, and missing and deteriorated wave fence members.

High priority repairs include the replacement of rotted decking, repairing the wave fence, and removal and replacement of the low water connection hardware. The opinion of probable cost for this work is in the order of \$168,000.

Low priority repairs include the cleaning and treating of the timber decking, installation of UHMW rub rails along the fender piles, repairing an area of subsidence at the intersection of the main pier and shoreline, and repairing damaged pvc utility lines along the underside of the pier. The opinion of probable cost for this work is in the order of \$174,000.



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### SECTION 1 INTRODUCTION

# 1.1 – Background and Objectives

The New Bedford Harbor Development Commission (HDC) has retained Pare Corporation (PARE) and Childs Engineering Corporation (CEC) to perform an above and below water inspection, and to develop a report of existing conditions for the Pope's Island Marina pier structure in New Bedford, Massachusetts. Inspections were performed in accordance with the ASCE Manuals and Reports on Engineering Practice No. 101 – Underwater Investigations: Standard Practice Manual. The major objectives of the inspection report are to provide the HDC with an assessment of existing conditions at the facility, and to substantiate requests for funding for the maintenance and repair of the facility.

# 1.2 – Scope of Work

The scope of this investigation is to provide an inspection and evaluation of the present condition of the pier and appurtenant structures, and to provide information that will assist in both prioritizing repair needs and planning/conducting maintenance and operation. The floating docks and guide piles were not included in the scope of the inspection.

The investigation is divided into three parts: 1) provide a description of the facility, including review of available reports, investigations, and data previously submitted to the owner pertaining to the wharf and appurtenant structures; 2) perform a visual inspection of the site above and below water; 3) prepare and submit a final report presenting the evaluation of the structure, including recommendations for remedial actions, and associated costs.

# **SECTION 2 DESCRIPTION OF SITE**

#### 2.1 - Site Location

Pope's Island Marina is comprised of a approximately 450 linear foot fixed timber main pier and an approximately 810 linear foot fixed timber tee pier. It is located off of US Route 6 between New Bedford and Fairhaven on the southern shore of Pope's Island as shown in Figure 1 – Locus Plan.

# 2.2 - Facility Description

The structure was built in 1993 with recent repairs completed in 2006. The facility is a public marina owned and operated by the New Bedford HDC. The timber pier and floating concrete finger docks create 198 seasonal boat slips.

The 450 foot long main pier is supported by 46 pile bents, with each bent comprised of three 12 inch timber piles and 4 inch by 8 inch cross braces. The timber pile caps measure 10 inches by 12 inches and support 4 inch by 12 inch timber stringers spaced approximately 18 inches on



center. The decking is comprised of 3 inch by 10 inch timber boards, with 42 inch high timber handrails on both sides.

The 810 foot long tee pier is supported by 84 pile bents, with each bent comprised of three 16 inch diameter timber piles and 4 inch by 8 inch cross braces. The timber pile caps measure 10 inches by 12 inches and support 4 inch by 12 inch timber stringers spaced approximately 18 inches on center. The decking is comprised of 3 inch by 10 inch timber boards, with 42 inch high timber handrails on the northern side of the tee pier and a 4 inch by 12 inch timber curb on the southern edge of the deck. The Tee Pier is protected with 12 inch diameter timber fender piles spaced 10 feet on center that extend approximately 42 inches above the deck elevation. A wave attenuator is bolted to the support piles on the southern face of the tee pier and is comprised of ten 3 inch by 8 inch timber vertical boards with 6 inch spacing and supported by three 4 inch by 8 inch timber stringers. The top of the wave attenuator is just below the pile cap and the bottom of the attenuator extends approximately 2.5 feet below the mean low water elevation. Timber ladders are located at various locations along the face of the tee pier, extending approximately 36 inch above the deck elevation.

A total of 6 aluminum gangways lead from the main pier down to floating concrete docks. Concrete finger floats provide docking space at each of the floating main docks. All of the main docks and finger floats are supported with timber guide piles. The inspection of the aluminum gangways, concrete main floats, concrete finger floats, and timber guide piles is beyond the scope of this inspection.

According to available plans, improvements were made to the pier structure in 2002 including replacement of the water lines and proposed installation of new spur piles beneath the tee pier. The spur piles were never installed, and additional repairs to the structure were completed in 2006. The repairs included the replacement of damaged finger floats, installation of rub rails along the concrete walkway floats, and the installation of 10 new timber guide piles.

Existing drawings pertaining to the facility were located in the HDC Office. Prior inspection reports have not been located at the time of this writing.

# **SECTION 3 EXISTING CONDITIONS**

#### 3.1 - General

Topside and underwater inspections were carried out on November 20, 2008. For reference purposes, a baseline was established during the inspection for each part of the pier structure. Along the deck of the main pier, Station 0+00 was located at the northern end of the pier at it's intersection with the shoreline and extended to Station 4+52 at the southern end of the main pier at its intersection with the tee pier. Along the deck of the tee pier, Station 0+00 was located at the eastern end of the pier and extended to Station 8+10 at the eastern end of the tee pier. Observations were made in relation to their location along the baseline as appropriate and as noted herein.



# 3.2 Observed Conditions - Topside

The topside of Pope's Island Marina Main Pier was observed to be in generally good condition. Minor deficiencies include several locations of observed timber rot along the decking, as well as a small area of subsidence in the bituminous asphalt at its intersection with the main pier. At Station 1+60, the timber deck board was observed to have an area of rot that had been filled with a small wooden filler strip, as shown in Photo No. 3 in Appendix A - Photographs. A similar condition was observed at Station 3+50, but the rotted space measuring approximately 1.5 inches wide and 36 inches long had not been filled as shown in Photo No. 4 in Appendix A - Photographs. The small area of subsidence was observed at Station 0+00 it the intersection of the main pier and the shoreline. The depression in the bituminous pavement measured approximately 3 inches wide by 12 inches long and was approximately 2 inches deep. Further inspection of the shoreline was beyond the scope of this inspection.

The topside of Pope's Island Marina Tee Pier is in generally good condition. Minor deficiencies include observed timber rot along the decking, some evidence of mildew growth, and minor damage to the timber curb. At Station 0+05 the timber deck board at the location of a timber ladder showed signs of rot on the southern edge, adjacent to the ladder. At Station 4+55, minor damage to the timber curb was observed with some cracking and splitting noted. Typically along the entire length of the tee pier and along the curb, the timber shows signs of mildew growth. This condition is a minor deficiency, but may become slippery during wet conditions.

A timber fender system consisting of 12 inch diameter timber fender piles spaced 10 feet on center was observed along the southern face of the tee pier only. The above water portion of the timber fender system was in overall good condition. Typically the piles have significant wearing along the waterside face between mean low water and just below the bottom of the pier deck. Connecting bolts through the piles are countersunk, however some of the piles have worn down to the bolt head.

The wave attenuator (wave fence) is bolted to the southern face of the tee pier, and helps to protect the vessels and floating concrete docks from wave action. The wave fence is comprised of 3 inch by 8 inch vertical boards, with 6 inch spacing. The above water portion of the wave attenuator appeared to be in to poor condition, with many of the boards were observed to be loose, broken, or missing. Approximately 10% of the boards comprising the wave fence are missing. Specific locations of loose, broken, or missing boards are available in the underwater inspection notes in Appendix E – Field Notes.

On the underside of the main pier and tee pier, PVC pipes providing sewer and electrical utilities pass between the timber stringers. A 4 inch diameter PVC pipe hangs with galvanized hangers beneath the timber pile caps. Some of the connections along these raceways have become loose or separated. On the tee pier at approximately Station 4+05, a small wooded shed acts as a pump house for these utilities. Along both the main pier and tee pair structures, fire extinguishers and fire alarms were observed along the light posts and handrails. Water standpipes were also observed at several locations. Along the main pier, 5 electrical generator boxes were observed. The generators were located within wider sections of the pier at Station 1+57, 2+87, and 4+32.



Along the southern edge of the tee pier, six power pedestals were mounted onto the timber deck approximately 150 feet on center, providing electric power and potable water to vessels docked at the pier.

# 3.3 – Observed Conditions – Underwater

For reference purposes during the underwater inspection, notes were taken referencing numbered pile bents along the main pier and tee pier. Pile bent numbering along the main pier started with Bent No. 1 at the shoreline and ended at Bent No. 46 at the intersection of the main pier and tee pier structures. Pile bent numbering along the tee pier began with Bent No. 1 at the eastern end of the tee pier and ended at Bent No. 84 at the western end of the tee pier.

The underwater inspection of the timber pier structure indicated an overall satisfactory condition. Conditions were similar along the main pier and tee pier structures. Minor deficiencies include evidence of marine borer activity, severely corroded low water connection hardware, and loose, broken, or missing timber members along the wave attenuator.

The timber piles were observed to be in overall good condition and appeared new, with marine growth typically observed along the underwater portion of the piles. Most of the timber bracing was observed to be in good condition, however there is a small percentage of bracing that was observed to have damage due to the presence of marine borers at the low water connection. Typically the low water connection hardware was observed to be severely corroded. During the inspection of the wave attenuator, approximately 10% of the timber members were observed to be loose, broken, or missing.

#### 4.0 – Structural Condition Assessment

#### 4.1 General

Based on the observations obtained from the site inspections, the following provides our assessment of the various structures and components. Existing structural condition determinations were based on visual and tactile observations only, and were limited to accessible and visible portions of the structures.

#### 4.2 Structural Condition Assessment

Based upon the visual inspection of topside and underwater structures, Pope's Island Marina is considered to be in generally good condition. No severe rot or deficiencies of the timber piles were observed, with no reduction in pile section noted during the underwater inspection. Some of the timber cross bracing has become detached or is likely to become detached due to the condition of the lower hardware.



#### SECTION 5 RECOMMENDATIONS AND OPINION OF PROBABLE COST

#### 5.1 – Recommendations - General

Based on conditions observed during the inspections, and the corresponding assessments of the existing structures, the following recommendations are provided for the repair and rehabilitation of these structures.

Opinions of probable cost were generated based upon current industry unit prices for similar work. Breakdowns of cost are provided in the Appendix. The cost opinions provided are for construction only and do not include allowances for engineering, permitting, or construction administration. A 20 percent contingency has been included with these costs. The opinions shown herein are based on a limited investigation and are provided for general information only. This should not be considered an engineer's estimate, as final design has not been performed, and actual construction costs may be somewhat less or considerably more than indicated, due to fluctuations in the market.

# 5.2 – High Priority

The following items are considered to have a High Priority, as they affect the usability and safety of the structure:

Remove and replace rotting timber deck boards. Failure to repair damaged areas may cause an unsafe condition. The opinion of probable construction cost for this work is approximately \$2,000.

Repair the wave attenuator. Repairs should include removal and replacement of any rotted timber stringers, replacement of broken vertical members, reconnection of loose vertical members, and replacement of missing members. Because of the protection provided by the attenuator, critical damage to floating docks may occur if repairs are not undertaken quickly. The opinion of probable construction cost for this work is approximately \$18,000.

Remove and replace underwater connection hardware. Failure to repair the connections will render the timber cross bracing ineffective, reducing the structural capacity of the pier and possibly creating an unsafe condition. The opinion of probable construction cost for this work is approximately \$70,000.

# 5.3 – Lower Priority

The following items are considered to have a Lower Priority, as they presently do not affect the usability and safety of the structure, but will need to be addressed in approximately 5 to 10 years.

Powerwash the timber decking and handrails along the main pier and tee pier structures. Waterproof sealant should be applied to all untreated timber after a thorough cleaning.



Sealing the timber is not only asthetically pleasing, it also prolongs the life of the structure by helping to protect against rot and mildew growth. The opinion of probable construction cost for this work is approximately \$75,000.

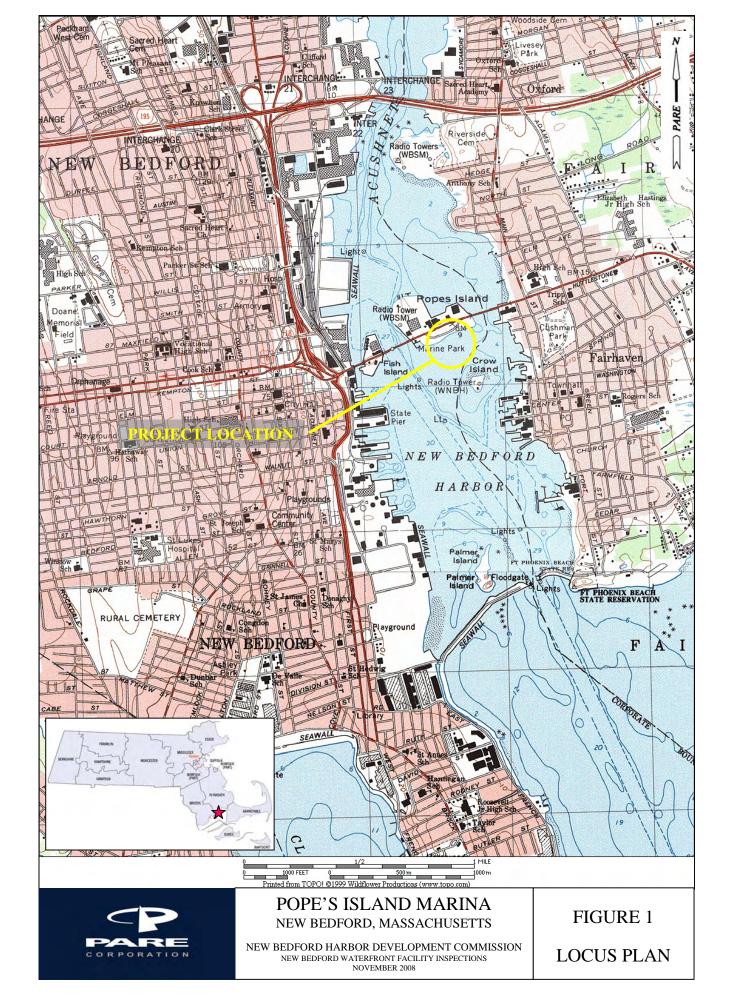
Install UHMW rub rails to the face of the fender pile. The UHMW is more durable than the timber and will extend the life of the piles The opinion of probable construction cost for this work is approximately \$25,000.

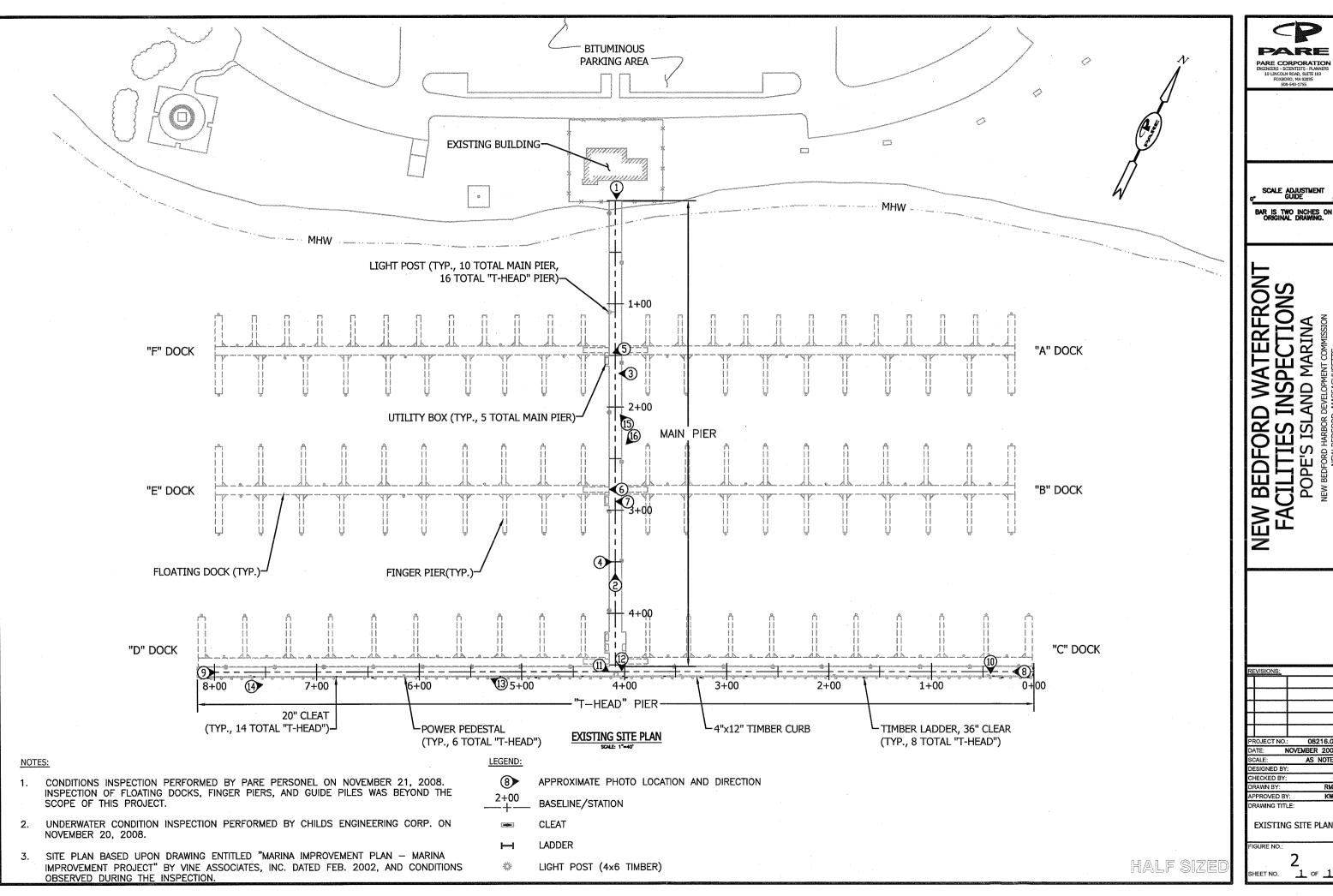
Backfill and regrade the area of subsidence at the intersection of the main pier and bituminous shoreline. Further investigations may be necessary to determine the cause of the depression. The opinion of probable construction cost for this work is approximately \$25,000.

Repair the PVC raceways on the underside of the main pier. If not repaired the utilities in the pipes may become damaged, limiting or preventing service. The opinion of probable construction cost for this work is approximately \$30,000.



Figures Pope's Island Marina New Bedford, Massachusetts



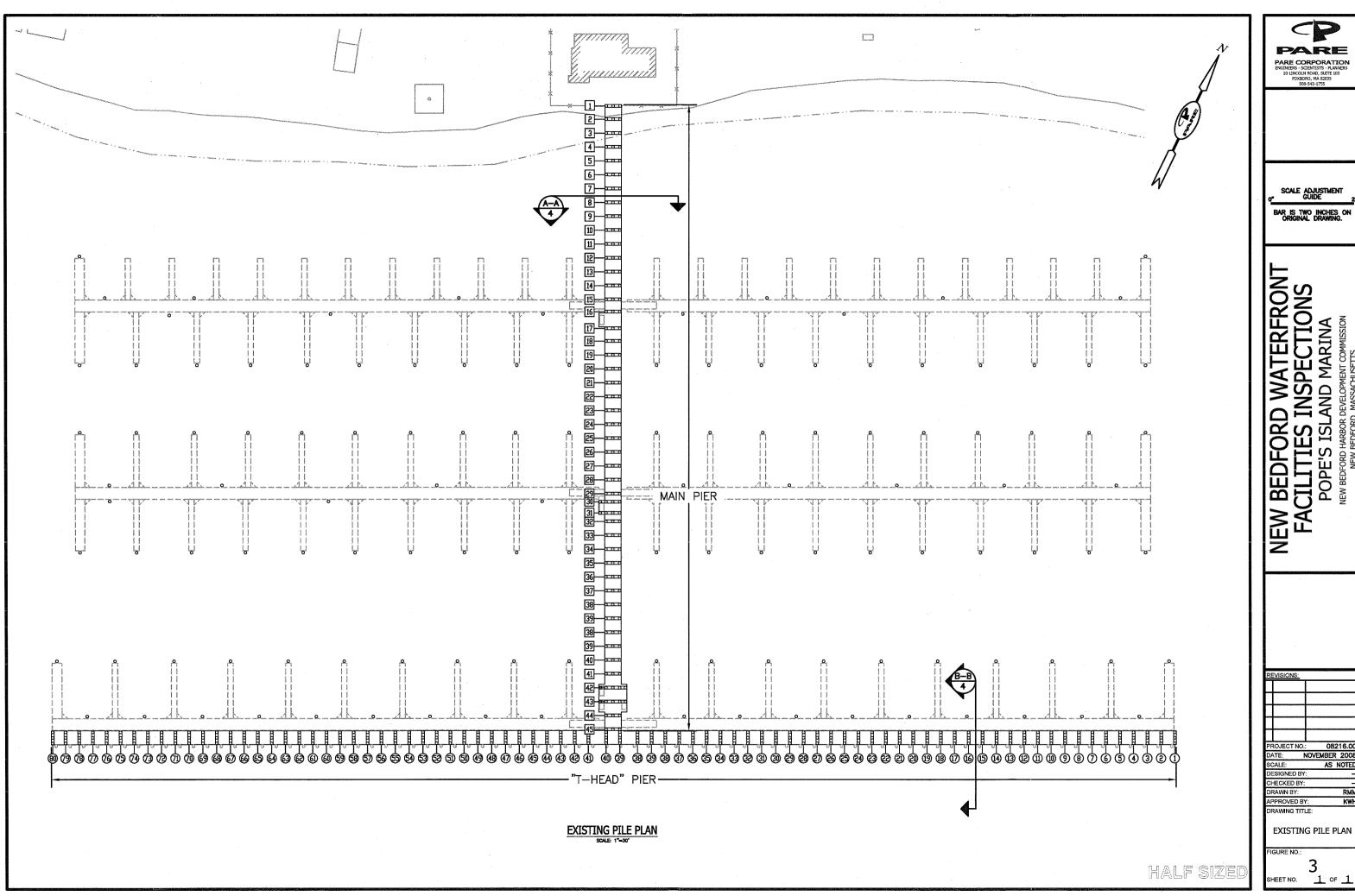


PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
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FOXEORO, NA 02035
508-543-1755

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**EXISTING SITE PLAN** 



PARE

SCALE ADJUSTMENT GUIDE

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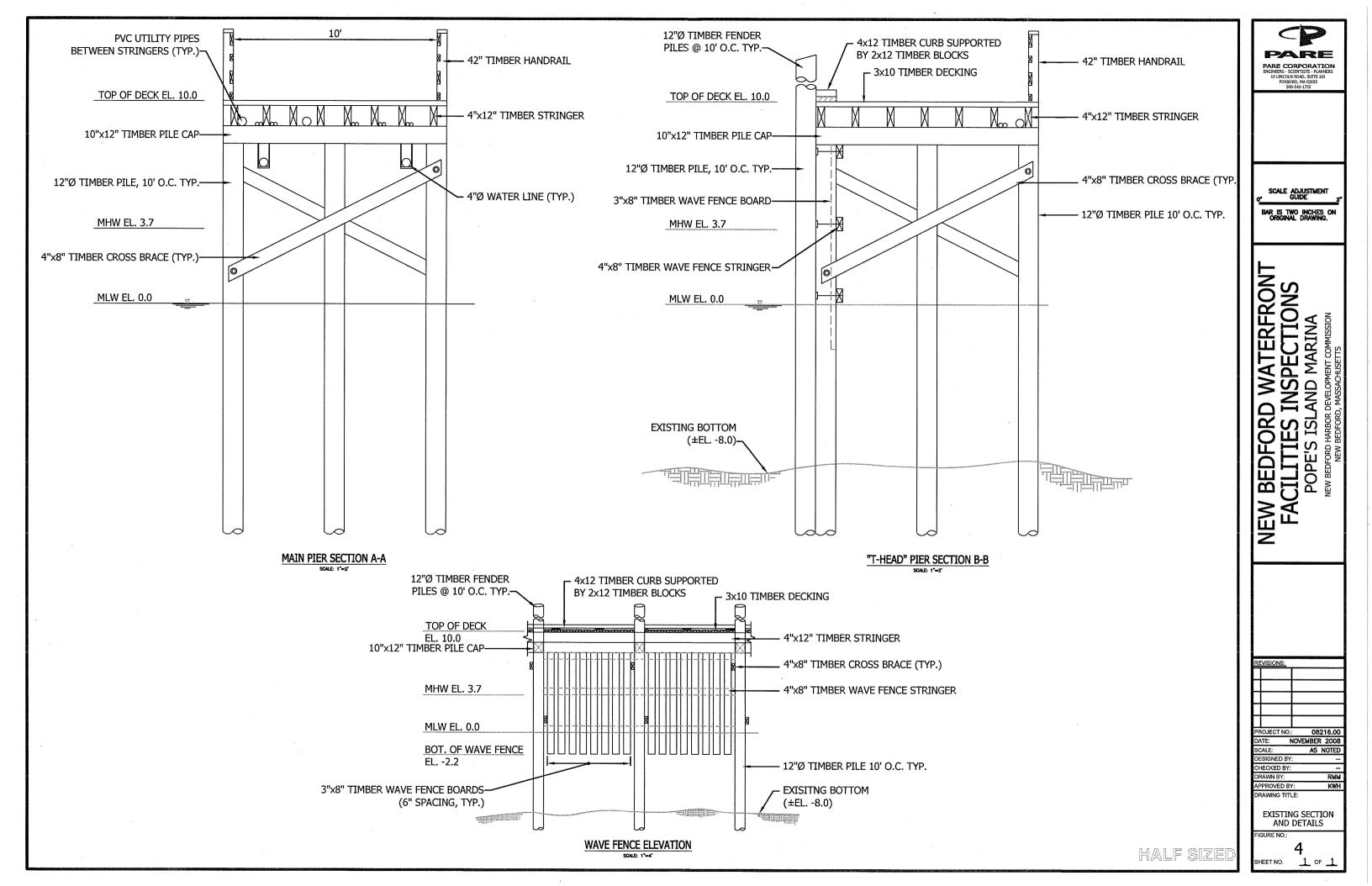
NEW BEDFORD WATERFRONT
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Appendix A Photographs Pope's Island Marina New Bedford, Massachusetts New Bedford Waterfront Facilities Inspections



Photo No. 1: Overview of the timber Main Pier.

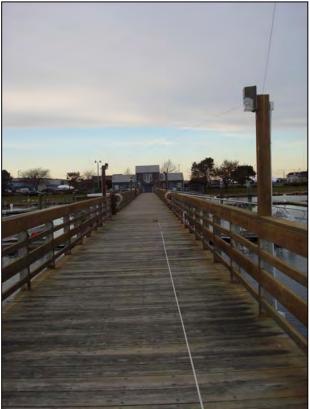


Photo No. 2: Overview of the timber Main Pier.



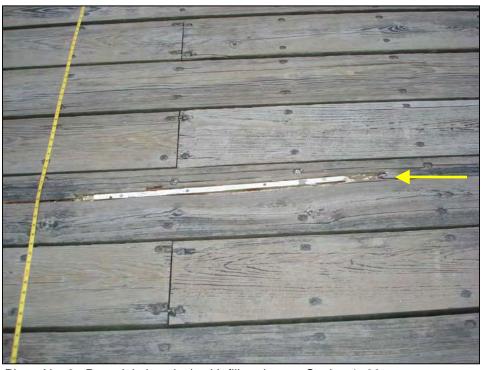


Photo No. 3: Rotted timber deck with filler piece at Station 1+60.

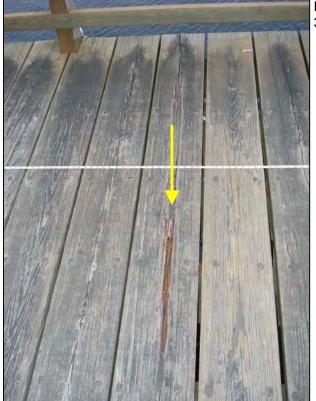


Photo No. 4: Rotted timber deck at Station 3+50.





Photo No. 5: Typical water standpipe along the pier.

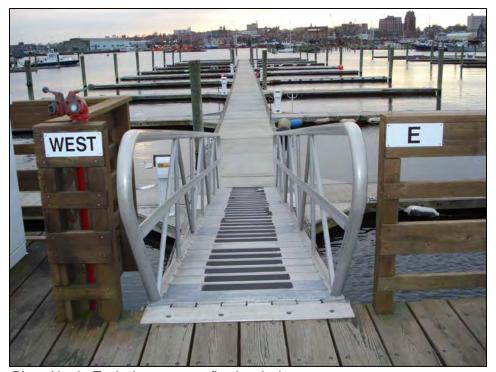


Photo No. 6: Typical gangway to floating docks.



New Bedford Waterfront Facilities Inspections



Photo No. 7: Typical power generator along the pier.



Photo No. 8: Overview of the timber Tee Pier looking west.





Photo No. 9: Overview of the timber Tee Pier looking east.



Photo No. 10: Typical power pedestal along the Tee Pier.



New Bedford Waterfront Facilities Inspections



Photo No. 11: Utility shed on the Tee Pier at Station 4+03 to Station 4+08.



Photo No. 12: Hose rack adjacent to the utility shed.



New Bedford Waterfront Facilities Inspections



Photo No. 13: Typical timber access ladder.

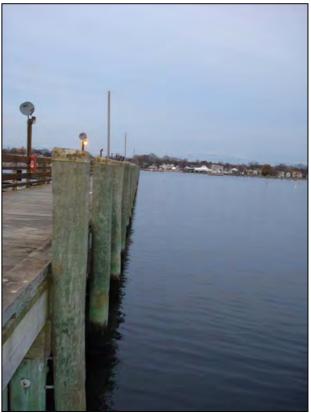


Photo No. 14: Overview of the timber fender piles along the Tee Pier.





Photo No. 15: Overview of the underside of the main pier. Note PVC utility raceways between the timber stringers.



Photo No. 16: Damaged utility raceway along the underside of the main pier.





Photo No. 17: Typical hardware underwater. (Photo by Childs Engineering Corp.)



Photo No. 18: Typical low water connection hardware. (Photo by Childs Engineering Corp.)



New Bedford Waterfront Facilities Inspections

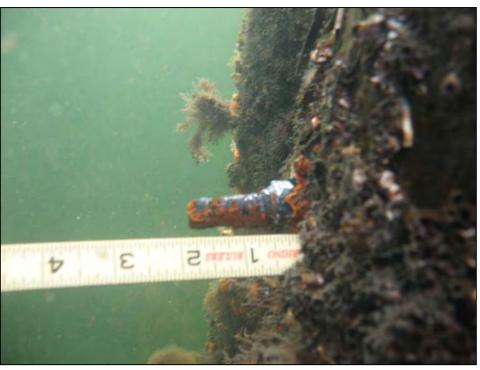


Photo No. 19: Corroded underwater connection hardware. (Photo by Childs Engineering Corp.)

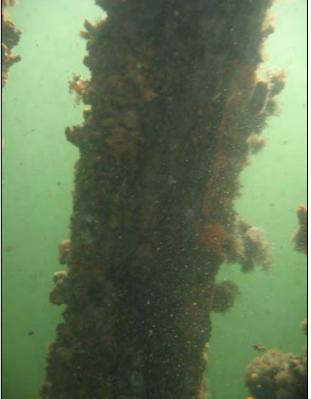


Photo No. 20: Overview of the underwater portion of timber piles. (Photo by Childs Engineering Corp.)



New Bedford Waterfront Facilities Inspections

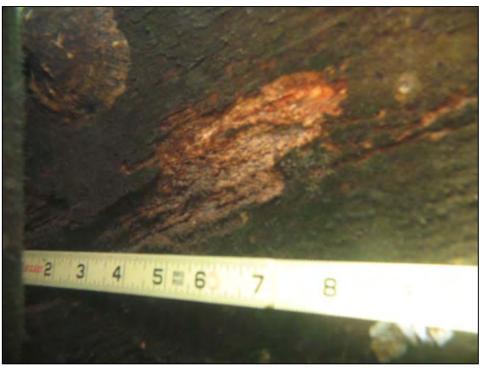


Photo No. 21: Evidence of marine borer activity along the timber cross bracing. (Photo by Childs Engineering Corp.)



Photo No. 22: Overview of the wave attenuator underwater. (Photo by Childs Engineering Corp.)





Photo No. 23: Detail of the lower portion of the wave attenuator underwater. Note heavy marine growth. (Photo by Childs Engineering Corp.)



Photo No. 24: Rotted timber wave attenuator stringer underwater. (Photo by Childs Engineering Corp.)



Appendix B Key Personnel Pope's Island Marina New Bedford, Massachusetts

# **KEY PERSONNEL**

The following personnel were involved with this project including but not limited to the topside and underwater inspections and the preparation of this report:

Name	Employer	Responsibilities
Karl Hammond, P.E.	PARE Corporation	Project Manager, Lead Engineer
Ernest O. Rabideau, Jr., P.E.	PARE Corporation	Project Reviewer
Matt Bellisle, P.E.	PARE Corporation	Principal in Charge
Craig Sams, P.E.	Childs Engineering Corporation	Principal in Charge
Robert Garrity, P.E.	Childs Engineering Corporation	Project Engineer for Underwater Inspections
Kevin Champagne, P.E.	PARE Corporation	Support Engineer
Richard Fitzgerald, P.E.	Childs Engineering Corporation	Underwater Inspection Team
Charlie Marshall Roberts	Childs Engineering Corporation	Underwater Inspection Team
Robert Welch	Childs Engineering Corporation	Underwater Inspection Team
Phil Iantosca	Childs Engineering Corporation	Underwater Inspection Team
Nicholas B. Sarata	Childs Engineering Corporation	Underwater Inspection Team
Ryan McCoy	PARE Corporation	Topside Inspection
Briscoe B. Lang	PARE Corporation	Permitting Services



Appendix C Backup Data for Cost Estimates Pope's Island Marina New Bedford, Massachusetts

# **POPE'S ISLAND MARINA**OPINION OF PROBABLE CONSTRUCTION COST

February, 2009

Р	IER REHAB	ILITATIO	N		
	QTY	UNIT	U	NIT PRICE	TOTAL
High Priority Repairs					
1. Mobilization/Demobilization	1	LS	\$	25,000.00	\$ 25,000.00
2. Demolition and Removal	1	LS	\$	25,000.00	\$ 25,000.00
3. Timber Deck Repairs	1	LS	\$	2,000.00	\$ 2,000.00
4. Wave Fence Repairs	6	DAY	\$	3,000.00	\$ 18,000.00
5. Underwater Connection Hardware	1	LS	\$	70,000.00	\$ 70,000.00
			Subto	otal	\$ 140,000.00
			Conti	ngency 20%	\$ 28,000.00
			Tota		\$ 168,000.00
Low Priority Repairs					
1. Timber Deck Treatment	1	LS	\$	75,000.00	\$ 75,000.00
2. UHMW Fender Protection	1	LS	\$	25,000.00	\$ 25,000.00
3. Subsidence Repair	1	LS	\$	15,000.00	\$ 15,000.00
4. PVC Utility Line Repairs	1	LS	\$	30,000.00	\$ 30,000.00
			Subto	otal	\$ 145,000.00
			Conti	ngency 20%	\$ 29,000.00
			Tota		\$ 174,000.00



PARE Project No.: 08216.00

Appendix D References Pope's Island Marina New Bedford, Massachusetts

#### REFERENCES

The following references were utilized during the preparation of this report and the development of the recommendations presented herein:

- 1. "About the Port Key Locations", New Bedford Harbor Development Commission, http://www.newbedford-ma.gov/PortofNewBedford/AboutPort/KeyLocations.html
- 2. Construction Drawings "Phase I Marina Improvement Project Pope's Island Marina", Vine Associates, Inc., March 2006.
- 3. Construction Drawings "Marina Improvement Project Pope's Island Marina", Vine Associates, Inc., February 26, 2002.
- 4. ASCE Underwater Investigations: Standard Practice Manual (2001).



Appendix E Field Notes Pope's Island Marina New Bedford, Massachusetts

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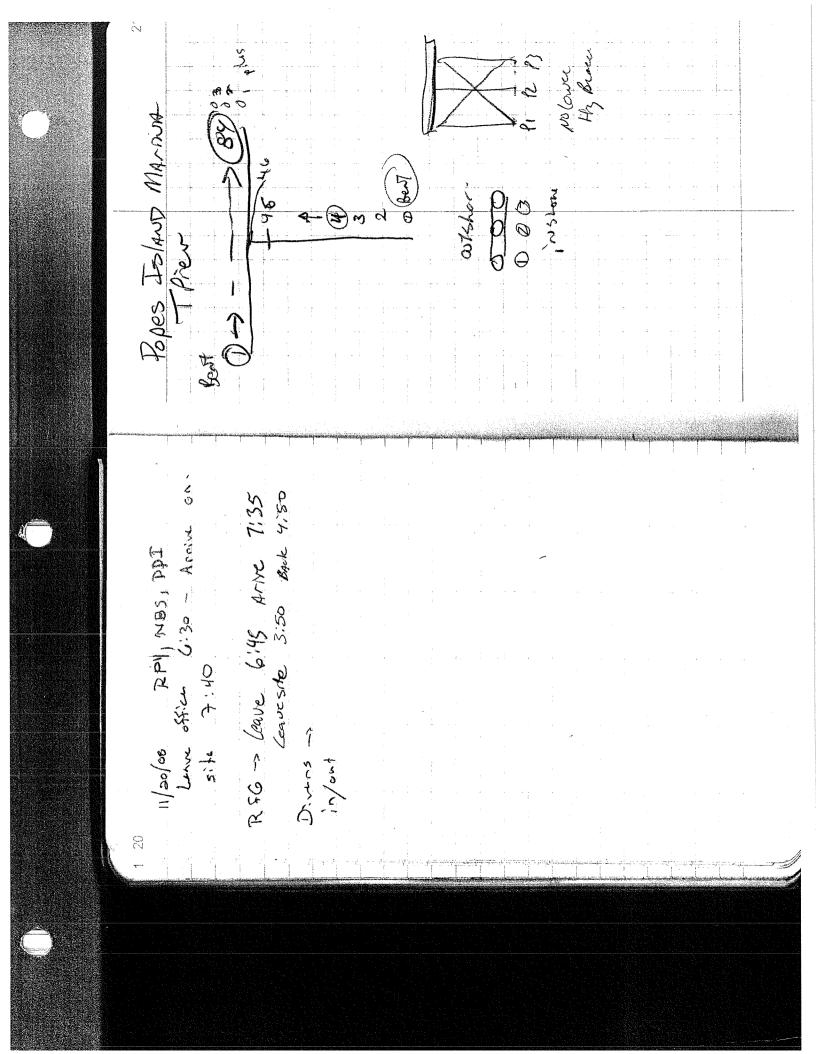
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	X®		- Jab 100r	Ast	" w/FIRE EXT.		T PUST	1872 (CD0D)			17 Past	NW -6000	LOFT SIDE MAIN PICK		3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		PIPE .	IDE WINN PIEK		CORB DAMINET	PET	7. X			
	SIA 1+95- BUX BUX	١, ١	3714 2401 - STAWDDIPE			- CLERI	STR 3707 - CIVET POST		STA 346-ELE BU	STA 3-161-CLEMI	STA 3+52- CIGHT POST	STA 3+99- LADDUR -6000	LOFT SIDE	STA HOS - CLEAT	307 - 101 - 101 AIS	STA 416.5-520x 6010 x 6x" 1164	SHED	STAY+12 - STAND PIPE	STA 4+11- PILHTSIDE MINNPIER	STR-4141- CLEDAT	STA 4+SS- TIMBER CURB DAMPLE	97 43 - CEF PS	On 1-66- 65 63			
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	STA 8+11- END OF PICK CLCAT		
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Bent to North And goods to the transfer works thank goods

7007-4000

200 Services and Services

Rent & North at LW Brack Bark.
Harry corribion
-> typ 302 1055 on hardware

Actuation thered 3 3 & & Over Water Funder wish

Between Auds Brot boards not a connected second from each end

perology on pile ower to post (?) #

Dent 16 pich 2 light ich damy

Frage banrol loss Mit bent 16

10 Acards (4,9) Read 31-40 32 6th board broken 25	one for the force (6,3) had 34 8th and find borel missing photo of hardware	No W.	13-13 all wine Fence.  Not Econocie & to Rotion.  Notice of the Bottom.	But 40 Ant Charles Assert missing 15th being	0 11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and S. X. Breed of J. J. S. S. W. L. S. L. W. C.	
24 ASh Rent 10 Boands	Bear 2) to 22 w	all oiles and hand	Bents 23-23 all wine boards 40				

	Cot and So
	484 BALL 844
	Link 22 3 Court missing
	2 Bourges
	25 / 2 mistry
	5 32 "34 im
See 2 Dive	( P)
6.77/ Bao San	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Share Charles	Sent 54 1) 2, 3, 3 Beer 1/5 missing
B. b philes Level 16-10-77	Bern SZ Bestul 1 missey 106

Bent 15 First But working

But 94, 74 cross biaring has no

Band 43, 21 washer gover on cross Brain connection

Dent 41 mB Loss 8'L x3" x 3"D

on X bruce on P3 photes

P1 mB 115"D (Cross bruce)

1 4X8 president)

1 4X8 president)

But 38 pt connection mB and grain Bot cen be such MB2.5" DX5" LX 10"L

Rent 37 pt Some as who bent 38

But 34 MB Sime as 32 + 78 cm

Bent 33 x 32 Pt on X Birding Stock on 8 32 x 35

New missing in Bent 27 pt for

But 33 4 32 Mis P3 X Breed.

MB appears to be attending and some on some of the X Breezing as world

No put on X Brachery on Gent 1)

Direct 12:00 Am