Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BU[illegible]TION

PERMIT

Please Read Application And Notes, If Any, Attached

PERMIT ISSUED
Permit Number: 090688
JUL 9 2009
CITY OF PORTLAND

This is to certify that MAINE YACHT CENTER LL[illegible]rock M[illegible]

has permission to Pile supported concrete decked [illegible]s over t[illegible]water f[illegible]low mar[illegible]travel lift boat hoist machine to drive on. Fo[illegible]
a Piers will transition onto land [illegible]Concrete [illegible]butme[illegible]

AT 65 KENSINGTON ST CB[illegible]429 G001001

provided that the person or persons, fi[illegible] or co[illegible]on ac[illegible]ting this permit shall comply with all of the provisions of the Statutes of Ma[illegible]e and of the O[illegible]ces of the City of Portland regulating the construction, maintenance and use[illegible]f buildings and stru[illegible]res, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Noti[illegible]tion o[illegible]spectio[illegible]nust be give[illegible]nd writte[illegible]ermissio[illegible]rocured befo[illegible]his bui[illegible]g or pa[illegible]ereof is lathe[illegible]or othe[illegible]ed-in. 24 HOU[illegible]NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____
Department Name

Director - Building & Inspection Services

7/9/09

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
09-0688		429 G001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
65 KENSINGTON ST	MAINE YACHT CENTER LLC	65 KENSINGTON ST	207-842-9000
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Prock Marine	67 Front Street Rockland	2075949565
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		Additions - Commercial	I-L

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Boatyard/Marina	Boatyard/Marina-Pile supported concrete decked piers over the water to allow marine travel lift boat hoist machine to drive on. The Piers will transition onto land via Concrete Abutements	$5,685.00	$558,830.00	4

FIRE DEPT: ☐ Approved ☐ Denied

Signature:

INSPECTION:
Use Group: U Type: 1
IBC 2003
Signature: JMB 7/9/09

Proposed Project Description:
Pile supported concrete decked piers over the water to allow marine travel lift boat hoist machine to drive on. The Piers will transition onto land via Concrete Abutements.
see permit #09-0657

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied
Signature: Date:

Permit Taken By:	Date Applied For:
lmd	06/30/2009

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

PERMIT ISSUED
JUL 9 2009
CITY OF PORTLAND

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☒ Shoreland (water related use - marine)	☐ Variance	☒ Not in District or Landmark
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☒ Flood Zone → paperwork entered into on scanning files	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐ ok with condition	☐ Denied	☐ Denied
Date: 7/2/09	Date:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | DATE | PHONE

7/31/09 Met Ken from Prock Maine on site.
Inspected 1st 18' of Abutment on west (Right) side for rebar prior to pour. OK to proceed JMB

8/26/09 Inspected Left side Forms/Rebar for 1st 18' abutment of concrete pour - on site w/ Brian from MYC 1:20 - 1:35 JMB — OK to Proceed

8/28/09 11:05 - 11:15 - Left side Abutment Footing/Rebar next 38' OK — Inspected 20' of travel pier on Right side Rebar & Forms in place to be poured 9/3 JMB

9/14/09 - checked Pouring of Footers & Rebar for pour - OK to pour.

JMB

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

__X__ **Footing/Piling Location Inspection: Prior to pouring concrete**

__X__ **Re-Bar Schedule Inspection: Prior to pouring concrete**

__X__ **Final/Certificate of Occupancy or Use: Prior to any occupancy of the structure or use. NOTE: There is a $75.00 fee per inspection at this point.**

__X__ **The final report of Special Inspections shall be submitted prior to the final inspection or the issuance of the Certificate of Occupancy or Use.**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee — Date 7/9/09

Signature of Inspections Official — Date 7/9/09

CBL: 429 G001001 **Building Permit #:** 09-0688

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
09-0688	06/30/2009	429 G001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
65 KENSINGTON ST	MAINE YACHT CENTER LLC	65 KENSINGTON ST	207-842-9000
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Prock Marine	67 Front Street Rockland	(207) 594-9565
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Additions - Commercial	

Proposed Use:	Proposed Project Description:
Boatyard/Marina-Pile supported concrete decked piers over the water to allow marine travel lift boat hoist machine to drive on. The Piers will transition onto land via Concrete Abutements.	Pile supported concrete decked piers over the water to allow marine travel lift boat hoist machine to drive on. The Piers will transition onto land via Concrete Abutements.

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 07/02/2009

Note: **Ok to Issue:** ☑

1) The Floodplain paperwork has been signed and returned. - That paperwork has been scanned under the CBL.

2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 07/09/2009

Note: **Ok to Issue:** ☑

1) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.

Comments:

7/2/2009-mes: see previous permit #09=0657

7/7/2009-jmb: Received email from Wayne D. Structural engineer for oversight on project.

7/8/2009-jmb: Sent email to Wayne D. With special inspection requirements and a copy of the SEAM forms. See email attached.

7/9/2009-jmb: Received SI statement from Wayne D. Need specific inspections for the project, he will submit, ok to issue

Jeanie Bourke - Re: FW: Maine Yacht Center

From: Jeanie Bourke
To: Steve Durrell; wayne@tecassoc.com
Date: 7/8/2009 11:19 AM
Subject: Re: FW: Maine Yacht Center
CC: Penny Littell ; Tammy Munson

Hello Wayne,
Thank you for providing a list of inspections and oversight for this project. I realize this project does not fall under the typical building permit requirements, however this is a structure and is required to meet certain code criteria as set forth in Chapter 17 of the IBC 2003.

I have reviewed the plans and everything seems in order, except for the following.

1. Was there a geotechnical evaluation report that you based the design on? I believe Brian from ME Yacht Services confirmed this. A copy is required for the permit application.
2. If not, can you please provide the design and loading standards for this type of structual pier work?

I am attaching forms created by (SEAM) for statement of special inspections that are required for other projects in Portland. Many of the requirements do not pertain to this project. Please fill in the information on the forms as it relates to these categories:

- The SI coordinator, approved agencies and statement agreement
- The pertinent sections under the headings for Soils and Foundations, Cast in place Concrete, and Structural Steel

The interim information from these inspections and tests can be submitted at the end of the project in the form of a final report of Special Inspections (see the SEAM form).

I am prepared to approve this permit today with a condition that the details for the special inspections will be submitted within a week of issuance.

Thank you for your attention to this, let me know if you have any questions.

Jeanie Bourke
Code Enforcement Officer/Plan Reviewer

City of Portland
Planning & Urban Development Dept./ Inspections Division
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715

>>> "Steve Durrell" <steve@prockmarinecompany.com> 07/07 2:54 PM >>>

From: Wayne Duffett [mailto:wayne@tecassoc.com]
Sent: Tuesday, July 07, 2009 1:13 PM
To: buildinginspections@portlandmaine.gov
Cc: Brian Harris MYC; Steve Durrell; Kyle Fair
Subject: Maine Yacht Center

To: Jeanie Bourke
Building Inspections
City of Portland

Dear Ms. Bourke:

I am the structural engineer for the travel lift piers being constructed at Maine Yacht Center by Prock Marine Company. I will be responsible for construction observation and engineering.

I have required the following testing and construction observation points.

1. All concrete will be tested by the Contractor in accordance with the Specifications.

2. TEC Associates will observe the testing of pile rock anchors.

3. TEC Associates will observe the formwork and reinforcement prior to placing concrete.

Please call me with any questions.

Regards,

Wayne W. Duffett, P.E.

****

Wayne W. Duffett, P.E. Tel. 207-767-6068
TEC Associates Fax 207-767-7125
46 Sawyer Street Cellular 207-232-3581
South Portland, ME 04106 wayne@tecassoc.com

****

Jeanie Bourke - Re: FW: Maine Yacht Center

From: "Wayne Duffett" <wayne@tecassoc.com>
To: "Jeanie Bourke" <JMB@portlandmaine.gov>, <steve@prockmarinecompany.com>
Date: 7/8/2009 3:03 PM
Subject: Re: FW: Maine Yacht Center
CC: "Penny Littell " <PL@portlandmaine.gov>, "Tammy Munson" <TMM@portlandmaine.gov>, <amhas@uuplus.net>

Jeanie,

Attached completed "Structural Statement of Special Inspections" for Maine Yacht Center travel lift pier. Be advised the Owner is not available to sign this statement account he is on a sailboat somewhere between here and France. By copy of this email (which he is able to receive on the boat) I will ask him to email you his authorization required on this form.

Regards,

Wayne Duffett, P.E.

----- Original Message -----
From: Jeanie Bourke
To: steve@prockmarinecompany.com ; wayne@tecassoc.com
Cc: Penny Littell ; Tammy Munson
Sent: Wednesday, July 08, 2009 11:19 AM
Subject: Re: FW: Maine Yacht Center

Hello Wayne,
Thank you for providing a list of inspections and oversight for this project. I realize this project does not fall under the typical building permit requirements, however this is a structure and is required to meet certain code criteria as set forth in Chapter 17 of the IBC 2003.

I have reviewed the plans and everything seems in order, except for the following.

1. Was there a geotechnical evaluation report that you based the design on? I believe Brian from ME Yacht Services confirmed this. A copy is required for the permit application.
2. If not, can you please provide the design and loading standards for this type of structual pier work?

I am attaching forms created by (SEAM) for statement of special inspections that are required for other projects in Portland. Many of the requirements do not pertain to this project. Please fill in the information on the forms as it relates to these categories:

- The SI coordinator, approved agencies and statement agreement

Jeanie Bourke - Re: FW: Maine Yacht Center

From: "Wayne Duffett" <wayne@tecassoc.com>
To: "Jeanie Bourke" <JMB@portlandmaine.gov>, <steve@prockmarinecompany.com>
Date: 7/8/2009 1:45 PM
Subject: Re: FW: Maine Yacht Center
CC: "Penny Littell " <PL@portlandmaine.gov>, "Tammy Munson" <TMM@portlandmaine.gov>, "Brian Harris MYC" <brian@maineyacht.com>

Jeanie,

1. There was no geotechnical evaluation or report prepared for this project. Because of the proximity of bedrock, I determined that all piles would be driven as end-bearing piles to bedrock and certain piles will be rock-anchored to bedrock to prevent uplift. Attached is a copy of the boring logs. The locations of the borings are shown on the site plan drawing.

2. There are no loading standards for this type of construction. These two finger piers were designed for the loading imposed by a marine travel lift with individual wheel loads of 61,300 pounds vertically and 6,130 pounds laterally. The travel lift that will be used on these piers has a maximum lifting capacity of 165,000 pounds.

Regards,

Wayne Duffett, P.E.

----- Original Message -----
From: Jeanie Bourke
To: steve@prockmarinecompany.com ; wayne@tecassoc.com
Cc: Penny Littell ; Tammy Munson
Sent: Wednesday, July 08, 2009 11:17 AM
Subject: Re: FW: Maine Yacht Center

Hello Wayne,
Thank you for providing a list of inspections and oversight for this project. I realize this project does not fall under the typical building permit requirements, however this is a structure and is required to meet certain code criteria as set forth in Chapter 17 of the IBC 2003.

I have reviewed the plans and everything seems in order, except for the following.

1. Was there a geotechnical evaluation report that you based the design on? I believe Brian from ME Yacht Services confirmed this. A copy is required for the permit application.
2. If not, can you please provide the design and loading standards for this type of structual pier work?

Project:
Date Prepared:

Structural Statement of Special Inspections

Project: *Maine Yacht Center Travel Lift Pier*

Location: *100 Kensington Street*

Owner: *Maine Yacht Center*

This *Statement of Special Inspections* encompass the following discipline: **Structural**

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency: ☐ *Upon request of Building Official* _____ or ☐ per attached schedule.

Prepared by:

Wayne W. Duffett, P.E.
(type or print name of the Structural Registered Design Professional in Responsible Charge)

Signature 7/8/09 Date

STATE OF MAINE
WAYNE WRIGHT
DUFFETT
No. 7673
LICENSED
PROFESSIONAL ENGINEER
7/8/09
Design Professional Seal

Owner's Authorization:

Signature Date

Building Code Official's Acceptance:

Jeanne Bonta 7/9/09
Signature Date

7/9/09 Spoke to Brian of ME Yacht Services, He is sailing to France but approved these inspections JMB

Project:
Date Prepared:

Structural Statement of Special Inspections (Continued)

List of Agents

Project: *N/A*

Location: *N/A*

Owner: *N/A*

This *Statement of Special Inspections* encompass the following discipline: **Structural**

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

X Foundation Piles

X Cast-in-Place Concrete

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections Coordinator (SSIC) **Wayne W. Duffett, P.E.**	*TEC Associates*	*46 Sawyer Street* *South Portland, ME 04106* *767-6068* *wayne@tecassoc.com*
2. Special Inspector (SI 1)		
3. Special Inspector (SI 2)		
4. Testing Agency (TA 1) Roger Domingo (concrete testing)	*S.W. Cole*	*286 Portland Road* *Gray, ME 04039* *657-2866* *rdomingo@swcole.com*
5. Testing Agency (TA 2)		
6. Other (O1)		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Jeanie Bourke - Re: FW: Maine Yacht Center

From: "Amhas" <amhas@uuplus.net>
To: "Wayne Duffett" <wayne@tecassoc.com>, "Jeanie Bourke" <JMB@portlandmaine.gov>, <steve@prockmarinecompany.com>
Date: 7/10/2009 11:53 AM
Subject: Re: FW: Maine Yacht Center
CC: "Penny Littell " <PL@portlandmaine.gov>, "Tammy Munson" <TMM@portlandmaine.gov>

Hello Jeanie
Thank you again for expiditing our permit application.
I approve authorization for Tec Assoc.to oversee construction of the piers and provide detailed information during construction as required on the Structural Statement of Special Inspections form.
Brian Harris
General Manager
MYC

----- Original Message
From: Wayne Duffett
To: Jeanie Bourke ; steve@prockmarinecompany.com
Cc: Penny Littell ; Tammy Munson ; amhas@uuplus.net
Sent: Wednesday, July 08, 2009 3:01 PM
Subject: Re: FW: Maine Yacht Center

Jeanie,

Attached completed "Structural Statement of Special Inspections" for Maine Yacht Center travel lift pier. Be advised the Owner is not available to sign this statement account he is on a sailboat somewhere between here and France. By copy of this email (which he is able to receive on the boat) I will ask him to email you his authorization required on this form.

Regards,

Wayne Duffett, P.E.

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I am prepared to approve this permit today with a condition that the details for the special inspections will be submitted within a week of issuance.

Thank you for your attention to this, let me know if you have any questions.

Jeanie Bourke
Code Enforcement Officer/Plan Reviewer

429-6-1

S.W.COLE ENGINEERING, INC.
GEOTECHNICAL CONSULTANTS

BORING LOG

BORING NO.:	B-2
SHEET:	1 OF 1
PROJECT NO.:	00-1065
DATE START:	11/16/2000
DATE FINISH:	11/18/2000
ELEVATION:	16±
SWC REP.:	GWB

PROJECT / CLIENT: PROPOSED BOAT STORAGE BUILDING / YACHT HAVEN
LOCATION: KENSINGTON STREET PORTLAND, MAINE
DRILLING FIRM: MAINE TEST BORINGS, INC. DRILLER: MEL COFFIN

	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL
CASING:	HSA			
SAMPLER:	SS	1 3/8"	140 lb	30"
CORE BARREL:				

WATER LEVEL INFORMATION
Water Observed @ 7.5' (High Tide)
Water Observed @ 9.1' (Low Tide)

CASING BLOWS/FOOT	SAMPLE NO.	PEN	REC	DEPTH @ BOT	0-6	6-12	12-18	18-24		
									2'±	GRAY CRUSHER MATERIAL (RECENT FILL)
	1D	24"	19"	4.0'	5	6	7	7		BROWN SAND WITH SOME SILT AND GRAVEL (RECENT FILL)
	2D	24"	12"	7.0'	4	4	3	3		
	3D	24"		12.0'	16	12	4	3	11.0'	
									13.0'	GRAY-BLACK ORGANIC SILT AND SILTY CLAY WITH SOME WOOD (OLD FILL) q_p=2 TO 3.5 ksf
	4D	24"	18"	17.0'	1	1	1	2		-LOOSE- GRAY SANDY SILTY CLAY WITH SILT AND SAND LAYERS
	5D	24"	18"	22.0'	1	1	3	1	23.5'	
	6D	24"	6"	27.0'	WOH	WOH	WOH	WOH		-LOOSE- BROWN SILTY SAND WITH WOOD
	7D	24"	4"	32.0'	1	1	2	1		
6	ROD PROBE 32' TO 34.6'									
9									34.6'	PROBABLE MEDIUM DENSE GRANULAR SOILS (NO SAMPLING)
16										
50/0										ROD PROBE REFUSAL @ 34.6'

SAMPLES:
D=SPLIT SPOON
C=3" SHELBY TUBE
U=3.5" SHELBY TUBE

SOIL CLASSIFIED BY:
[ ] DRILLER - VISUALLY
[X] SOIL TECH.-VISUALLY
[ ] LABORATORY TEST

REMARKS:
STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: B-2

S.W.COLE ENGINEERING, INC.

BORING LOG

BORING NO.:	B-02-1
SHEET:	1 OF 1
PROJECT NO.:	00-1065.4
DATE START:	11/26/02
DATE FINISH:	11/26/02
ELEVATION:	NO SURVEY DATA
SWC REP.:	KBG

PROJECT / CLIENT: YACHT HAVEN BOAT RAMP / ALLIED ENGINEERING
LOCATION: PORTLAND, MAINE
DRILLING CO.: NORTHERN TEST BORINGS DRILLER: MIKE NADEAU

	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL
CASING:	HSA	2 1/4"		
SAMPLER:	SS	1 3/8"	140 lb	30"
CORE BARREL:				

WATER LEVEL INFORMATION
TIDAL ZONE

BLOWS PER 6 INCHES	SAMPLE NO.	PEN.	REC.	DEPTH @ BOT	SAMPLE DESCRIPTIONS 0-6	6-12	12-18	18-24
	1D	24"	10"	2.0'	1	2	2	3
	2D	24"	15"	4.0'	6	3	3	3
	3D	24"	18"	6.0'	2	2	3	3

2.5'	-LOOSE-	BROWN TO BLACK FINE SAND WITH SOME ORGANICS AND SHELLS
17.6'	-LOOSE-	BROWN TO GRAY SILTY FINE SAND WITH SEAMS OF BROWN SAND AND GRAY SILTY CLAY

ROD PROBE:

7-8'	14	14-15'	14
8-9'	14	15-16'	24
9-10'	16	16-17'	24
10-11'	15	17-17.6'	50/7"
11-12'	19		
12-13'	16		
13-14'	16		

POSSIBLE BEDROCK
BOTTOM OF EXPLORATION AT 17.6'
PROBE REFUSAL

Grade ~10.3' MLLW
= 17.6'

JUL 13 2009

SAMPLES:
D = SPLIT SPOON
C = 3" SHELBY TUBE
U = 3.5" SHELBY TUBE

SOIL CLASSIFIED BY:
[ ] DRILLER - VISUALLY
[X] SOIL TECH. - VISUALLY
[X] LABORATORY TEST

REMARKS:
STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: B-02-1

S.W.COLE ENGINEERING, INC.

BORING LOG

PROJECT / CLIENT: YACHT HAVEN BOAT RAMP / ALLIED ENGINEERING
LOCATION: PORTLAND, MAINE
DRILLING CO.: NORTHERN TEST BORINGS DRILLER: MIKE NADEAU

	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL
CASING:	HSA	2 1/4"		
SAMPLER:	SS	1 3/8"	140 lb	30"
CORE BARREL:				

BORING NO.: B-02-2
SHEET: 1 OF 1
PROJECT NO.: 00-1065.4
DATE START: 11/26/02
DATE FINISH: 11/26/02
ELEVATION: NO SURVEY DATA
SWC REP.: KBG
WATER LEVEL INFORMATION
TIDAL ZONE

SAMPLES NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24			
1D	24"	10"	2.0'	2	2	3	5	1.5'	~LOOSE~	BROWN TO BLACK MEDIUM TO COARSE SAND SOME SILT TRACE FINE GRAVEL TRACE ORGANICS
2D	24"	14"	4.0'	5	4	2	3	4.0'	~LOOSE~	BLACK SILTY SAND SOME ORGANICS WITH RELIC SLAG, BRICK, ASH AND PETROLEUM ODOR
3D	19"	17"	6.0'	4	4	10	50/1"	5.6'	~LOOSE~	GRAY FINE SAND WITH SOME SILT, TRACE FINE GRAVEL TRACE ORGANICS
								7.7'		PROBABLE WEATHERED ROCK
										POSSIBLE BEDROCK BOTTOM OF EXPLORATION AT 7.7' AUGER REFUSAL

F = 3.0
3.0 = [illegible]

JUL 13 2009

SAMPLES:
= SPLIT SPOON
= 3" SHELBY TUBE
= 3.5" SHELBY TUBE

SOIL CLASSIFIED BY:
[ ] DRILLER - VISUALLY
[X] SOIL TECH. - VISUALLY
[X] LABORATORY TEST

REMARKS:
STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: B-02-2

S.W.COLE ENGINEERING, INC.

BORING LOG

BORING NO.: B-02-3
SHEET: 1 OF 1
PROJECT NO.: 00-1065.4
DATE START: 11/26/02
DATE FINISH: 11/26/02
ELEVATION: NO SURVEY DATA
SWC REP.: KBG

PROJECT / CLIENT: YACHT HAVEN BOAT RAMP / ALLIED ENGINEERING
LOCATION: PORTLAND, MAINE
DRILLING CO.: NORTHERN TEST BORINGS DRILLER: MIKE NADEAU

	TYPE	SIZE I.D.	HAMMER WT.	HAMMER FALL
CASING:	HSA	2 1/4"		
SAMPLER:	SS	1 3/8"	140 lb	30"
CORE BARREL:				

WATER LEVEL INFORMATION
TIDAL ZONE

NO.	PEN.	REC.	DEPTH @ BOT	0-6	6-12	12-18	18-24
1D	24"	15"	2.0'	1	2	3	4
2D	24"	18"	4.0'	4	8	14	12
3D	24"	8"	6.0'	5	8	4	1
4D	24"	6"	8.0'	2	4	3	2
5D	24"	14"	10.0'	2	2	2	6

2.2' BROWN TO BLACK MEDIUM TO COARSE SAND -LOOSE- TRACE SILT

5.4' BLACK SILTY SAND SOME ORGANICS WITH RELIC SLAG, BRICK, ASH AND PETROLEUM ODOR -LOOSE-

9.6' GRAY FINE SAND WITH -LOOSE- SOME SILT AND ORGANICS

15.3' GRAY SILTY FINE SAND -LOOSE- WITH SILT SEAMS

ROD PROBE:

10-11'	12	13-14'	17
11-12'	14	14-15'	16
12-13'	17	15-15.3'	50/4"

POSSIBLE BEDROCK
BOTTOM OF EXPLORATION AT 15.3'
PROBE REFUSAL

SAMPLES:
) = SPLIT SPOON
: = 3" SHELBY TUBE
) = 3.5" SHELBY TUBE

SOIL CLASSIFIED BY:
[ ] DRILLER - VISUALLY
[X] SOIL TECH. - VISUALLY
[X] LABORATORY TEST

REMARKS:
STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL.

BORING NO.: B-02-3

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: ~~100~~ 65 Kensington Street		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# 429 Block# G Lot# 001	Applicant *must be owner, Lessee or Buyer* Name MAINE YACHT CENTER Address 100 Kensington St City, State & Zip Portland ME 04103	Telephone: 842.9000
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: $ 558,830.00 C of O Fee: $ Total Fee: $

JUN 30 2009

Current legal use (i.e. single family) _____ Number of Residential Units_____
If vacant, what was the previous use? _____
Proposed Specific use: _____
Is property part of a subdivision? _____ If yes, please name _____
Project description: - PILE SUPPORTED CONCRETE DECKED PIERS - OVER WATER TO ALLOW MARINE TRAVEL LIFT BOAT HOIST MACHINE TO DRIVE ON. PIERS TO TRANSITION ONTO LAND VIA CONCRETE ABUTMENTS.

Contractor's name: ROCK MARINE
Address: 67 FRONT ST
City, State & Zip ROCKLAND ME 04841 Telephone: 594.9565
Who should we contact when the permit is ready: BRIAN HARRIS Telephone: 842.9000
Mailing address: 100 KENSINGTON ST PORTLAND ME 04103

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: _____ Date: 6/30/09

This is not a permit; you may not commence ANY work until the permit is issue

Revised 07-11-08

Certificate of Design

Date: 30 June 2009

From: Wayne W. Duffett, P.E.

These plans and / or specifications covering construction work on:

Maine Yacht Center - Travel Lift Pier

100 Kensington Street

Have been designed and drawn up by the undersigned, a Maine registered ~~Architect /~~ Engineer ~~according to the *2003 International Building Code* and local amendments~~.

STATE OF MAINE
WAYNE WRIGHT
DUFFETT
No. 7673
(SEAL)
LICENSED
PROFESSIONAL ENGINEER
6/30/09

Signature: Wayne W. Duffett

Title: President

Firm: TEC Associates

Address: 46 Sawyer Street

South Portland, ME 04106

Phone: 767-6068

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

N/A

Accessibility Building Code Certificate

Designer: _____

Address of Project: _____

Nature of Project: _____

_____

_____

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

(SEAL)

Signature: _____

Title: _____

Firm: _____

Address: _____

_____

Phone: _____

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

Certificate of Design Application

From Designer: WAYNE W. DUPPETT, P.E.

Date: 6/30/2009

Job Name: MAINE YACHT CENTER – TRAVEL LIFT PIER

Address of Construction: 100 KENSINGTON STREET

~~2003 International Building Code~~

Construction project was designed to the ~~building code~~ criteria listed below:

Building Code & Year _____ Use Group Classification (s) _____

Type of Construction CONCRETE PIER ON PIPE PILE

Is there a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IBC? _____ Supervisory alarm system? _____

Is the Structure mixed use? _____ If yes, separated or non separated or non separated (section 302.3) _____

Geotechnical/Soils report required? (See Section 1802.2) PIPE PILES SOCKETED TO BEDROCK.

Structural Design Calculations

_____ Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)

_____ Basic wind speed (1809.3)

_____ Building category and wind importance Factor, I_w table 1604.5, 1609.5)

_____ Wind exposure category (1609.4)

_____ Internal pressure coefficient (ASCE 7)

_____ Component and cladding pressures (1609.1.1, 1609.6.2.2)

_____ Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, SDs & SD1 (1615.1)

_____ Site class (1615.1.5)

_____ Live load reduction

_____ Roof *live* loads (1603.1.2, 1607.11)

_____ Roof snow loads (1603.7.3, 1608)

_____ Ground snow load, P_g (1608.2)

_____ If P_g > 10 psf, flat-roof snow load P_f

_____ If P_g > 10 psf, snow exposure factor, C_g

_____ If P_g > 10 psf, snow load importance factor, I_f

_____ Roof thermal factor, C_t (1608.4)

_____ Sloped roof snowload, P_s (1608.4)

_____ Seismic design category (1616.3)

_____ Basic seismic force resisting system (1617.6.2)

_____ Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

_____ Analysis procedure (1616.6, 1617.5)

_____ Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)

_____ Elevation of structure

Other loads

61.3 k Wheel ~~Concentrated~~ loads (1607.4)

_____ Partition loads (1607.5)

_____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404

1. Special inspections shall not be required for EIFS applications installed over a water-resistive barrier with a means of draining moisture to the exterior.
2. Special inspections shall not be required for EIFS applications installed over masonry or concrete walls.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.13 Special cases.

1704.13 Special cases.
Special inspections shall be required for proposed work that is, in the opinion of the building official, unusual in its nature, such as, but not limited to, the following examples:

1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.
2. Construction materials and systems that are alternatives to materials and systems prescribed by this code.. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control.

1704.14 Special inspection for smoke control.
Smoke control systems shall be tested by a special inspector.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control. / 1704.14.1 Testing scope.

1704.14.1 Testing scope.
The test scope shall be as follows:

1. During erection of duct work and prior to concealment for the purposes of leakage testing and recording of device location.
2. During erection of duct work and prior to concealment for the purposes of leakage testing and recording of device location.. Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.14 Special inspection for smoke control. / 1704.14.2 Qualifications.

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	Continuous during task listed	Periodically during task listed	IBC section	ACI 530/ ASCE 5/ TMS 402[a]	ACI 530.1/ ASCE 6/ TMS 602[a]
1. From the beginning of masonry construction, the following shall be verified to ensure compliance:					
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons.	—	X	—	—	Art. 2.6A
b. Placement of masonry units and construction of mortar joints.	—	X	—	—	Art. 3.3B
c. Placement of reinforcement, connectors and prestressing tendons and anchorages.	—	X	—	Sec. 1.12	Art. 3.4, 3.6A
d. Grout space prior to grouting.	X	—	—	—	Art. 3.2D
e. Placement of grout.	X	—	—	—	Art. 3.5
f. Placement of prestressing grout.	X	—	—	—	Art. 3.6C
2. The inspection program shall verify:					
a. Size and location of structural elements.	—	X	—	—	Art. 3.3G
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X	—	—	Sec. 1.2.2(e), 2.1.4.3.1.6	—
c. Specified size, grade and type of reinforcement.		X	—	Sec. 1.12	Art. 2.4, 3.4
d. Welding of reinforcement.	X	—	—	Sec. 2.1.10.6.2, 3.2.3.4(b)	—
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	—	X	Sec. 2104.3, 2104.4	—	Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	X	—	—	—	Art. 3.6B
3. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	X	—	Sec. 2105.2.2, 2105.3	—	Art. 1.4
4. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	X	—	—	Art. 1.5

For SI: C = (F - 32)/1.8.
a. The specific standards referenced are those listed in Chapter 35.

1704.11.4 Density.

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	Continuous during task listed	Periodically during task listed	IBC section	ACI 530/ASCE 5/TMS 402[a]	ACI 530.1/ASCE 6/TMS 602[a]
1. As masonry construction begins, the following shall be verified to ensure compliance:					
a. Proportions of site-prepared mortar.	—	X	—	—	Art. 2.6A
b. Construction of mortar joints.		X			Art. 3.3B
c. Location of reinforcement and connectors.		X			Art. 3.4, 3.6A
d. Prestressing technique.	—	X	—	—	Art. 3.6B
e. Grade and size of prestressing tendons and anchorages.	—	X	—	—	Art. 2.4B, 2.4H
2. The inspection program shall verify:					
a. Size and location of structural elements.	—	X	—	—	Art. 3.3G
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	—	X	—	Sec. 1.2.2(e), 2.1.4, 3.1.6	—
c. Specified size, grade and type of reinforcement.	—	X	—	Sec. 1.12	Art. 2.4, 3.4
d. Welding of reinforcing bars.	X	—	—	Sec. 2.1.10.6.2, 3.2.3.4(b)	—
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	—	X	Sec. 2104.3, 2104.4	—	Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	—	X	—	—	Art. 3.6B
3. Prior to grouting, the following shall be verified to ensure compliance:					
a. Grout space is clean.	—	X	—	—	Art. 3.2D
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.		X		Sec. 1.12	Art. 3.4
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X		—	Art. 2.6B
d. Construction of mortar joints.		X		—	Art. 3.3B
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	X	—	—	—	Art 3.5
a. Grouting of prestressing bonded tendons.	X	—	—	—	Art. 3.6C
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	X	—	Sec. 2105.2.2, 2105.3	—	Art. 1.4
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	X	—	—	Art. 1.5

During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the approved report, as specified in Section 1803.5.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.7 Soils. / 1704.7.3 Evaluation of in-place density.

1704.7.3 Evaluation of in-place density.
The special inspector shall determine, at the approved frequency, that the in-place dry density of the compacted fill complies with the approved report.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.8 Pile foundations.

1704.8 Pile foundations.
A special inspector shall be present when pile foundations are being installed and during tests. The special inspector shall make and submit to the building official records of the installation of each pile and results of load tests. Records shall include the cutoff and tip elevation of each pile relative to a permanent reference.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.9 Pier foundations.

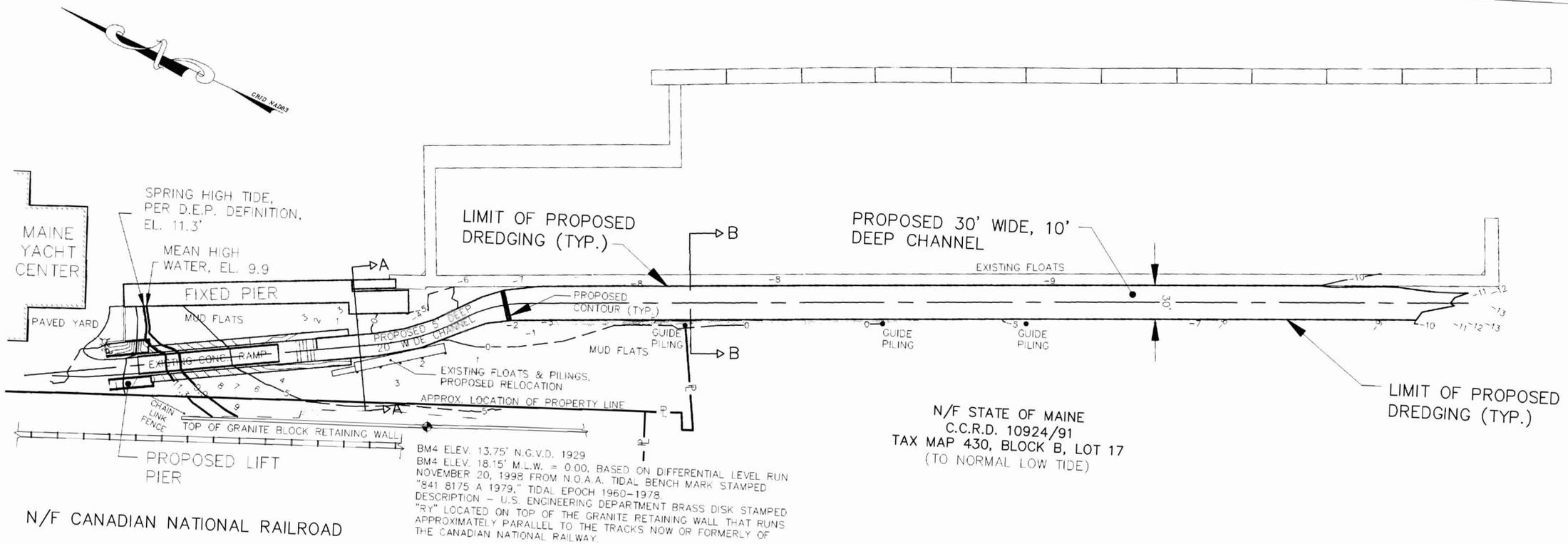
1704.9 Pier foundations.
Special inspection is required for pier foundations for buildings assigned to Seismic Design Category C, D, E or F in accordance with Section 1616.3.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.10 Wall panels and veneers.

1704.10 Wall panels and veneers.
Special inspection is required for exterior and interior architectural wall panels and the anchoring of veneers for buildings assigned to Seismic Design Category E or F in accordance with Section 1616.3. Special inspection of such masonry veneer shall be in accordance with Section 1704.5.

2003 International Building Code / CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS / SECTION 1704 SPECIAL INSPECTIONS / 1704.11 Sprayed fire-resistant materials.

1704.11 Sprayed fire-resistant materials.
Special inspections for sprayed fire-resistant materials applied to structural elements and decks shall be in accordance with Sections 1704.11.1 through 1704.11.5. Special inspections shall be



BM4 ELEV. 13.75' N.G.V.D. 1929
BM4 ELEV. 18.15' M.L.W. = 0.00, BASED ON DIFFERENTIAL LEVEL RUN NOVEMBER 20, 1998 FROM N.O.A.A. TIDAL BENCH MARK STAMPED "841 8175 A 1979," TIDAL EPOCH 1960–1978.
DESCRIPTION – U.S. ENGINEERING DEPARTMENT BRASS DISK STAMPED "RY" LOCATED ON TOP OF THE GRANITE RETAINING WALL THAT RUNS APPROXIMATELY PARALLEL TO THE TRACKS NOW OR FORMERLY OF THE CANADIAN NATIONAL RAILWAY.

NOTES:

1.) CONTOURS WEST OF FIXED PIER BASED ON TOPOGRAPHIC SURVEY UNDERTAKEN JUNE 2006, ALL OTHER CONTOURS BASED ON SOUNDINGS PROVIDED BY THE MAINE YACHT CENTER.

2.) VOLUME OF PROPOSED DREDGE MATERIAL: 4706 CUBIC YARDS (3921 CUBIC YARDS IN–PLACE, PLUS 20% SWELL FACTOR) (BOX CUT IN PROPOSED CHANNELS WITH ONE FOOT ALLOWABLE OVERDEPTH).

3.) AREA OF PROPOSED DREDGING: 28,396 SQ. FT. (INTERTIDAL ZONE, 1,712 SQ. FT.)

4.) AREA OF PROPOSED LIFT PIER OVER INTERTIDAL ZONE: 1,980 SQ. FT/ ±

5.) THE PURPOSE OF THIS PLAN IS TO FACILITATE PERMITTING OF THE FOLLOWING ACTIVITIES:

DREDGING
CONSTRUCTION OF LIFT PIER.

PREPARED BY:

POST ROAD SURVEYING, INC.
43 SANFORD RD., UNIT 3
PO BOX 1557
WELLS, ME 04090

STATE OF MAINE
FRANCES O. LAPIERRE
No 1320
PROFESSIONAL LAND SURVEYOR

D2

PROPOSED DREDGING PROPOSED SITE CONDITIONS & BATHYMETRY

MAINE YACHT CENTER
100 KENSINGTON ST.
CASCO BAY
PORTLAND, ME 04103
MARCH 13, 2008

100 0 50 100 200

3/26/09 PLOT WITH PRE–DREDGE CONTOURS, SCALE: 1"=50'