From:	Marge Schmuckal
То:	Lee Urban
Date:	Tue, <u>Mar 9, 20</u> 04 9:04 AM
Subject:	Re: Flood Plain/Ocean Gateway

Lee,

The FEMA process to amend their floodmaps is very long and cumbersome and they request the City to kick in dollars for the engineering costs. In 1996 we started a process with FEMA to remap the area off Washington Avenue by Mona Road which is subject to flooding by the Fallbrook. It took two years and we were the talk of FEMA (not all kindly) of how quickly the process took for us. We went to the head of the class because of Cheryl and her contacts with Senator Snow. Cheryl will confirm this.

FEMA doesn't just take our word for what we think may be correct. An outside contractor (engineer) is hired to meet FEMA requirements before FEMA accepts any specific mapping changes. They would also work with our Public Works engineers (i.e. Jon Giles previously)

I hope this helps you. You may pass this information on with any tweaking.

Marge

>>> Lee Urban 03/09 5:49 AM >>> Good morning, Marge, . . .

I would like to send the following to Joe this morning. Please feel free to comment on it before I send it off. My question to you is do you know how long the amendment process by FEMA would take. And what happens if the City says, without any amendment, that it's in the A2 zone and we're wrong [it gets wiped out by a storm, for example]? Would there be a problem with insurance? I'd like to end my email to Joe with a "next steps" proposal - for example: We contact FEMA and start the process, we get a letter from FEMA, whatever.

Thanks.

Good morning, Joe . . .

I have received Barry Sheff's March 3 memo to you seeking your support that the City maintain that Pier 2 is in the A2 zone. Barry's argument does offer support for his claim that Pier 2 is in the A2 zone.

The challenge is before us, however, because the flood plain map does not show Pier 2 to be in A2. The map simply has a white area where Pier 2 is now located. To be able to opine with certainty that the new building will be located in the A2 zone, the City should require that the map be amended by FEMA. But I note that the new building is not on the existing Pier 2. It is to be along the side of Pier 2, closer to the area of open water. If FEMA gives an OK on both Pier 2 and the proposed building, then we are all set. Otherwise, we are left with a pier and a building that clearly is not shown as being in any flood plain zone.

CC: Alex Jaegerman; Lori Paulette; Needelman Bill

From:	Marge Schmuckal
То:	William Needelman
Date:	Thu, Jan 15, 2004 4:32 PM
Subject:	Re: Fwd: Oceangateway Parking Evaluation

Bill,

Can I get a copy of the site plan with the new and old so I can determine what would be required under the parking? I too believe that it will be under what they will be showing, but they need to see it in writing. Marge

>>> William Needelman 01/14 2:20 PM >>> To all:

Attached is the Ocean Gateway parking plan in email format. Hard copies are to follow. You can use the site plan previously circulated as the primary graphic. If you need a map, please let me know, and I'll make sure you get one.

For the upcoming Jan 27 Planning Board meeting, I will need the following review comments.

John and Tom, please provide your opinions of the location, quantity and function of the proposed parking as it relates to the Ocean Gateway Site Plan.

Marge, please provide a zoning interpretation as to satisfying WPDZ requirements (we all assume that zoning is a non-issue given the small amount of new sq. ft., but the Board should have it in writing.)

Penny, as stated in an earlier email, we'll need a memo describing the Board's role and limits when dealing with the parking issue, separating regulatory requirements from policy issues - particulary regarding displaced parking.

Given the aggressive time frame, if anyone has serious concerns, please try to flag them as soon as possible, so that we can get a response from the consulting team in time for the memo on Jan 23.

Sorry about the rush. Thank you all.

Bill 874-8722



November 11, 2003

Mr. Frank Bransley City of Portland Department of Public Works 55 Portland Street Portland, Maine 04104

Re: Ocean Gateway Phase I Project – Portland Harbor Addendum to Letter dated October 14, 2003

Dear Mr. Bransley:

As you may recall, we are preparing a Site Location of Development (SLOD) permit application and Major Site Plan review documents for the Ocean Gateway Phase I project for the Maine Department of Environmental Protection (MDEP) and the City of Portland (City). The site consists of several lots owned by the City and is shown on the enclosed USGS Topographic Map. A preliminary copy of the Proposed Site Plan has also been enclosed for your use.

To estimate the wastewater discharge generated by the proposed project, an average of 300 gallons per day (GPD) per 1,000 sq. ft. of building area was used. Anticipated average daily wastewater discharge for each proposed building and for the project site will be as follows:

Building	Approximate Building Area	Average Daily Wastewater Discharge (GPD)
Receiving Station	5,500 sq. ft.	1,650
Ferry Terminal Building	15,000 sq. ft. (total floor area of two- story building)	4,500
Vehicle Inspection Station	500 sq. ft.	150
	Total Demand	6,300

We are proposing to discharge wastewater generated at the site through a new service connecting to the existing 12-inch collector sewer on site. The existing 12-inch main discharges into a 51-inch brick sewer upstream of CSO Outfall Structure #003. The flow would then pass through the India Street Pump Station and on to the Wastewater Treatment Plant.

It should be noted that during rainfall events, a portion of the site drains into an existing perforated manhole cover near the corner of India Street and Commercial Street. As a result of the proposed

⁴¹ Hutchins Drive Portland, Maine 04102 207-774-2112 207-774-6635 (Fax) 1-800-426-4262 www.woodardcurran.com



Mr. Frank Bransley, City of Portland November 11, 2003 Page 2

project, stormwater running into the combined sewer will be decreased slightly in this area. The following table indicates anticipated stormwater runoff rates in cubic feet per second (cfs) for both the pre-development and post-development conditions as determined through HydroCAD modeling.

	Peak Runoff 2 Yrs (cfs)	Peak Runoff 10 Yrs (cfs)	Peak Runoff 25 Yrs (cfs)
Pre-development	2.67	4.22	4.94
Post-development	2.40	3.88	4.57
Change in Runoff	-0.27	-0.34	-0.37

The SLOD Permit and Major Site Plan review processes require the submission of information that demonstrates there is sufficient collection and treatment capacity to serve the proposed development. Our office is requesting an "Ability to Serve" letter from the City Public Works Department stating the collection system in the vicinity of Commercial and India Streets has the capacity to handle the additional wastewater discharge generated by this development. Major Site Plan review documents were submitted to the City on November 7, 2003. We anticipate submitting the SLOD permit application to the MDEP by the end of November.

Please contact us if you have any questions or if you need additional information. Thank you very much for your assistance.

Sincerely,

WOODARD & CURRAN INC.

Ken Volock Engineer

KRV/kaw 203438.01

Enclosure(s)

cc: Paul Pottle, Maine Department of Transportation (without enclosures) Jeff Monroe, City of Portland Department of Ports and Transportation (without enclosures)



November 11, 2003

Mike Greene Portland Water District 225 Douglass Street P.O. Box 3553 Portland, Maine 04104-3553

Re: Ocean Gateway Phase I Project – Portland Harbor Addendum to Letter dated October 14, 2003

Dear Mr. Greene:

As you may recall, we are preparing a Site Location of Development (SLOD) permit application and Major Site Plan review documents for the Ocean Gateway Phase I project for the Maine Department of Environmental Protection (MDEP) and the City of Portland (City). The site consists of several lots owned by the City and is shown on the enclosed USGS Topographic Map.

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Mike Greene, Portland Water District November 11, 2003 Page 2

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Post-development	2.40	3.88	4.57
Change in Runoff	-0.27	-0.34	-0.37

The SLOD Permit and Major Site Plan review processes require the submission of information that demonstrates there is sufficient collection and treatment capacity to serve the proposed development. Our office would like to request an "Ability to Serve" letter from the Portland Water District stating the City Wastewater Treatment Plant and the India Street Pump Station each have the capacity to treat the additional wastewater discharge generated by this development. Major Site Plan review documents were submitted to the City on November 7, 2003. We anticipate submitting the SLOD permit application to the MDEP by the end of November.

Please contact us if you have any questions or if you need additional information. Thank you very much for your assistance.

Sincerely,

WOODARD, & CURRAN INC.

Ken Volock Engineer

KRV/kaw 203438.01

Enclosure

cc: Paul Pottle, Maine Department of Transportation (without enclosure) Jeff Monroe, City of Portland Department of Ports and Transportation (without enclosure)



Applicant: Reed & Reed FNC-Destin Little full Bate: 8/18/05 ++++- A-CANEd Address: 46 CommercIAL St C-B-L: 444-A-005 CHECK-LIST AGAINST ZONING ORDINANCE permit# 05-10\$5 Date - Federelopment of Lot Zone Location - WIDZ Interior on corner lot -Proposed Use/Work - to Construct Oce An Giftiway Gruse Ship Fermul Servage Disposal - City Loi Street Frontage - NA The Large Ship will be in A Unit of the Large Ship will be in A Front Yard - NA e Kept shall be Amin of 5 franed ge of pier line Rear Yard - N/A Side Yard - N/A Projections -Width of Lot - NA Width of Lot - N M Height - 45' MAX - 40'Scaled on Pitch root for terminely 40'Scatter on the hosp station 21.5' for vehicle hosp station 31' for receiving Bldg Station Lot Area - N/A Lot Coverage Impervious Surface - 100 BANGOURS Area per Family - NHA Off-street Parking - determined by PLAnning BD - ok Loading Bays - NA Site Plan - Mayor #2003 - 0235 Shoreland Zoning/ Stream Protection - Exempt under The ordurance Flood Plains- ppmel 14 of 17 VL- Ele 13- security or Aler Note: Already have certified Elevation for the termin of 12 VZ- the 13- see changes to The Floodplain order and

1.4.1 Pier 2 Expansion and Terminal Facility Design

Conceptual design has focused on utilizing the present site layout and limiting the necessary site changes to create the Ocean Gateway multimodal facility. This will reduce impacts and maximize project funding. The facility will incorporate much of the existing site infrastructure including the pier, utilities, paved surfaces, and gravel parking areas.

Overwater efforts will include work associated with developing two vessel berths. Berth 1 includes the expansion of Pier 2 by approximately 12,500 sq. ft. with pile-supported dock, referred to on the drawings as Pier A; an approximately 7,670 sq.-ft. (15,000 gross sq.-ft.), two-story Terminal Building on the expanded pier with a covered passenger walkway linking the Terminal Building to the shore; roll-on/roll-off vehicle bridge (RORO); and the relocation of an existing passenger gangway system from the International Marine Terminal (IMT) to Pier 2. Berth 2 includes two pile-supported mooring dolphins; three pile-supported breasting dolphins (with fendering); and, dependent upon funding, five-foot wide catwalks for linemen in combination with as much as 800 sq. ft. of pile-supported pier between the dolphins (referred to as Pier B and Pier C), a 5,580 sq.-ft. floating dock, and a 9-ft. wide passenger gangway system. Overwater construction will also include the demolition and removal of the existing wood pile fendering system on Pier 2, wood piles in the location of the proposed RORO, the utility corridor on the east side of Pier 2, and the grabber rail on Mooring Platform No. 2 (once used for the BIW dry dock).

Land-side improvements will include: constructing an approximately 6,000 sq.-ft. Receiving Station with a covered breezeway; retrofitting the 870 sq.-ft. Guard House to accommodate a Vehicle Inspection Station (VIS) with 1,650 sq. ft. of covered, drive-through inspection lanes; stabilizing or reconstructing the seawall by the RORO; creating vehicular staging and queuing lanes; establishing drop-off zones and temporary parking areas; relocating utilities; constructing adjacent roadway networks; re-grading existing gravel parking areas; installing drainage systems and stormwater quality enhancement units; landscaping; and installing lighting and signage.

The aforementioned Receiving Station will be built entirely on land and will be situated at the head of Pier 2 in the location of an existing rest room facility (to be demolished) and paved driveway area. The VIS will be located at the westerly end of the site within the current Guard House. Both the Terminal Building and the Receiving Station are being designed for year-round use. The City anticipates using these spaces for private and municipal gatherings or functions when not in use by the SP or the facility's other tenants.

The SP international ferry transports foot passengers and vehicles between Yarmouth, Nova Scotia, and Portland, Maine. Foot passengers will board the vessel via the Receiving Station and the Terminal Building while vehicles will board over the RORO. Prior to boarding, vehicles will be staged in a secured, outbound queuing area, sized to accommodate roughly 200 passenger car equivalents in six lanes. Vehicles coming off the vessel will be required to pass through the VIS. Prior to being cleared through the VIS, vehicles will wait in a secured, inbound queuing area that will accommodate roughly 170 passenger car equivalents in six lanes. These queuing areas will be located between the MSP and Pier 2, south of Commercial Street.

Reed & Reed, Inc. PO Box 370 Woolwich, ME 04579 Ph : (207)443-9747				
		L	etter of Trai	nsmittal
To: City of Portland /B 389 Congress St Portland, ME 04101 Subject : Commercial Bui	لاستالکارشی عالج د اding Permit	Inspect Ling the Application	How Transm	nittal #: 1 Date: 7/29/2005 Job: 421 Ocean Gateway Terminal y Project - Phase 1
WE ARE SENDING YOU	🔽 Attach	ed	☐ Under se	parate cover via None the following items:
Shop drawings	☐ Prints		☐ Plans	
Copy of letter	Γ Chang	je order	Specifica	ations Γ Other
Document Type	Copies	Date	No.	Description
Other	2	8/2/05		Commercial Building Permit Application - Ocean Gateway
Other	2	8/2/05		Project Plans - Full Size
Other	1	8/2/05		Project Plans - 11" x 17" NA - POF Provided
Other	1	8/2/05		Project Specifications Forthcoming from MDOT
Other	1	8/2/05		PDF File - Plans & Specifications
Other	0			
THESE ARE TRANSMITTE	ED as check	ed below:		
For approval	Г	Approved	d as submitted	
☐ For your use	Г	Approved	d as noted	Submit copies for distribution
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FOR BIDS DUE	Г	PRINTS	RETURNED AFTE	R LOAN TO US
Remarks:				

Copy To: Dustin Littlefield (Reed & Reed, Inc.)

m: Dustin Littlefield (Reed & Reed, Inc.)

Signature:

If enclosures are not as noted, kindly notify us at once.

Ρ	age	1
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From:	Jeffrey Monroe	
То:	Joe Gray; Larry Mead; Lee Urban; Marge Schmud	;.
Date:	Thu, Mar 11, 2004 2:24 PM	
Subject:	Re: Ocean Gateway/A2	

A simple consideration, the 3 feet of higher building will introduce significant logistics problems and design changes for a facility that at the original planned height is the same as every other waterfront building on the sight. This introduces issues for labor managing ships, persons accessing the building, ADA issues, interior building heights and numerous others. The short terms affect is the cost of construction, the long term affect is significant operational challenges-the new pier will not connect to the old pier. Under the guise of a "pier extension" that is new structure added to an existing pier, it should not have to be raised. For example, under the existing logic-we would have had to raise the new end of the Maine State Pier 3 feet to comply. What we have is a pier extension, with a new building being added. Logic dictates a contigous structure. In that vain, so should the interpertation.

>>> Lee Urban 3/10/2004 5:33:09 AM >>>

As much as anyone, I want this problem to go away quickly. At the risk of seeming to be looking for bogeymen or seeing problems where none exist, however, but in the interest of laying out a possible issue regarding the City opining that we're in the A2 zone, I need to note that in a March 5 letter from the DEP to City Councilors regarding the proposed Custom House Wharf conditional rezoning, Mike Morse takes an active interest in what goes on along the waterfront and the various laws, both federal and State, that affect it. Will we need the DEP's consent to the City opining one way or the other regarding flood plain zoning and/or might the DEP argue against us at some point?

Believe me, I want to see this be resolved as soon as possible; but there's a map out there that is incomplete and it may not be just as easy as making an interpretation of what the map should say.

I stand ready to be guided/educated/whatever. Thanks.

3/24/04 met with bee? Sill N to goover Flood plan issues

From:	Marge Schmuckal
То:	William Needleman
Date:	Wed, Apr 21, 2004 12:00 PM
Subject:	Floodplain

Bill,

I have had recent conversations with Lou Sidell and Bonnie Boulter in the State Planning Office of the Floodplain Management Program. Both have told me that the City may amend our floodplain ordinance, section 14-450.8(16), concerning new construction located seaward of the reach of mean high tide within Zones A1-A30, AE, A, V1-V30, and VE. They also related that the Federal Government has stricter guidelines as to use in all the velocity zones of such areas. The City would still need to comply with the Federal guidelines for new construction on piers located on the seaward side of the reach of mean high tide. It is my understanding that our proposed changes reflect meeting those Federal guidelines.

Marge Schmuckal Zoning Administrator

CC: PENNY LITTELL

From:	Marge Schmuckal
To:	William Needleman
Date:	Fri, Feb 6, 2004 4:14 PM
Subject:	Ocean Gateway Project

Bill,

This memo is in regards to parking requirements. It is my understanding that there is 30,000 square foot of office area and 90,000 square foot of industrial use on this site. Section 14-320.3 of the WPDZ zone requires off-street parking to be at 50% of the number of required parking spaces for each specified use. Using the square footage given, 83 parking spaces would be required. It is my understanding that a significant increase in that required number is being proposed. Parking is not a zoning problem in this proposal.

Marge Schmuckal Zoning Administrator From:Lee UrbanTo:Marge Schmuckal; Penny LittellDate:Thu, Mar 25, 2004 1:29 PMSubject:Floodplain

Hello, Marge and Penny, ...

What follows is what I sent a few seconds to Larry, Jeff and Joe.

Yesterday in our continuing efforts to try to see if this problem can go away quickly, I spent some time re-visiting the issue of flood plain zoning. Here's where I am, all of which I reported to Larry Mead at the end of the day [literally] after speaking with Marge Schmuckal, Bill Needelman, Penny Littel and Joe Gray.

1. The question of what zone the terminal will be in is a matter of science, not logic. To answer that question, one must investigate the sea bed, winds, waves, tides and so on. There is water in the area that is zoned A2 [between existing piers] and there is water zoned V2 [facing the open sea].

2. The Zoning Administrator has the authority to determine that a structure on one of those piers is in the A2 zone because the pier on which the structure sits or will sit is on that pier. The Zoning Administrator does not have the authority to determine that a structure on a pier that is not in any zone is or will sit within an A2 zone or a V2 zone because it doesn't sit in any zone and for the reason stated in #1 above.

3. That being the case, the Zoning Board of Appeals has no authority to hear any appeal of such a determination, even if the Zoning Administrator where to make one, for the reasons stated in #1 and #2.

4. But the Planning Board needs to know in what zone the facility will be located.

5. So, we proceed as best we can before the Planning Board as if the facility is going to be in the "worst" zone . . .

6. while we pull out all stops [political] to get FEMA to come up here from Boston to get the data it needs [and there may be much that's available already because the V2 zone goes all the way around the Easter Promenade] and to give us a zone in two months.

Throughout any review process, there may be well-intended members of the public who will try to find ways to claim that the review process if otherwise than as described above is flawed. So we need to do it the best way we know how so as not to be delayed further by litigation or more reviews. I think the review process described in #1 through #6 is the best way to proceed.

Carlton Day Reed, Jr., Chairman Jackson A. Parker, President WO	D & REED, INC. OLWICH, MAINE 04579 Telephone 207-443-9747 FAX 207-443-2792 TR OF TRANSMITTAL
TO: CITY DE PORTLAND	Date: 9-18.06 Job. No.: 421
JUSPECTION SERVICES	Attention: MARGE Scott Lucker
Roy 315, 389 Congress St.	Re: Cura Larring F
Portland, ME 04101	IN OCEMA DATEMIN
Gentlemen: 879-8703	· · · · · · · · · · · · · · · · · · ·
We are sending you 🇹 Attached 🗌 Under Sepa	arate Cover via
	, the following items:
Shop Drawings Prints	Plans Samples Specifications
□ Subcontracts □ Change Order	Copy of Letter
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Copies Date No.	Description
1 9.18.06 Elevation	Certificate / Verification
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These are transmitted as checked below: For approval Approved as submitted For your use Approved as noted As requested Returned for correction For review and comment	DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME Resubmit copies for approval Submit copies for distributer 1 9 2006 Returned corrected prints <u>RECEIVED</u>
For signature	
For bids due	20 Prints returned after loan to us.
REMARKS:	Issue part II
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Copy to: File	REED & REED, INC.
Dave Senns-Well	Signed by: DUSTIN LITTLEFIELD
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FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

O.M.B. No. 3067-0077 Expires December 31, 2005

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City of Portland					
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CITY Portland		×	STATE ME	ZIP C 04101	ODE 1
PROPERTY DESCRIPT	ION (Lot and Block	Numbers, Tax Parce	Number, Legal Description, etc.)	•	
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Non-residential. Ferry Ter	minal building, City	y of Portland.			
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City of Portland			Cumberland County		Maine
B4. MAP AND PANEL			B7. FIRM PANEL		B9. BASE FLOOD ELEVATION(S)
NUMBER	B5. SUFFIX	B6. FIRM INDEX DATE	E EFFECTIVE/REVISED DATE	B8. FLOOD ZONE(S)	(Zone AO, use depth of flooding)
230051 0014	<u> </u>	7/17/1976	7/17/1976	A	•
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	s, copy the corresponding information from	Section A.		For insurance Company Use:
DING STREET ADDRESS (Includi	ing Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AND I	BOX NO.		Policy Number
Ammar building - Ocean Gale	STAT	TE	ZIP CODE	Company NAIC Number
`vrtland	ME		04101	
	SECTION D - SURVEYOR, ENGINEER, OR A	RCHITECT CERTIFIC	CATION (CONTINUE	D)
Copy both sides of this Elevation Co	ertificate for (1) community official, (2) insurance agent	l/company, and (3) buildir	ig owner.	
COMMENTS				
City Approved Water Level Analysis	s conducted in May 2004 determined a finish floor elev	vation of 16.87 (0.00 MLL	<u>W)</u>	
	······································			· · · · · · · · · · · · · · · · · · ·
Top of mech. mezzanine floor = 46	5.37'. Elevator machine room +16.87' MLLW			Check here if attachmer
SECTION E - BUILD	DING ELEVATION INFORMATION (SURVEY N	NOT REQUIRED) FOR	R ZONE AO AND ZO	NEA (WITHOUT BFE)
or Zone AO and Zone A (without BF	FE), complete Items E1 through E4. If the Elevation Ca	ertificate is intended for u	se as supporting information	tion for a LOMA or LOMR-F,
action C must be completed.				
I. Building Diagram Number 5 (Sele	ect the building diagram most similar to the building for	which this certificate is b	eing completed – see pa	ages 6 and 7. If no diagram accurate
represents the building, provide a	a sketch of photograph.) ring basement or repolecyme) of the building is _0ft (m)) fin (m) 🕅 shave ar 🖞	below (check one) th	e hinhest arliacent grade. (I lse
 me up or sie boliom moor (in auto natural grade, if available). 				ic ingricer bejacon group. (000
3. For Building Diagrams 6-8 with o	penings (see page 7), the next higher floor or elevated	I floor (elevation b) of the	building isft.(m)i	n.(cm) above the highest adjacent
grade. Complete items C3.h and	d C3.i on front of form.	<u> </u>		
I. The top of the platform of machin	ery and/or equipment servicing the building is Q ft.(m)) <u>6</u> in.(cm) 🔀 above or	below (check one) the	ne highest adjacent grade. (Use
natural grade, if available). 5 For Zono AO only: If no flood day	nth number is available, is the ten of the bottom floor a	w constructor of hotsvolu	th the community's floor	iniain mananement orminance?
. For Zone AU dilly. Into hood de, □ Yes. □ No. □ Unknowr	n. The local official must certify this information in Sec	tion G		
	SECTION F - PROPERTY OWNER (OR OWN	ER'S REPRESENTA	TIVE) CERTIFICATIO	ON NC
The property owner or owner's auth	norized representative who completes Sections A, B, C	C (Items C3.h and C3.i or	ly), and E for Zone A (w	ithout a FEMA-issued or community
ssued BFE) or Zone AO must sign	here. The statements in Sections A, B, C, and E are	correct to the best of my	knowledge.	
PROPERTY OWNERS OR OWNI	ER'S AUTHORIZED REPRESENTATIVE'S NAME			
A International			CTA	
JURESS 4111 Le Jeune Road	\sim	Miami	FL	33146
SIGNATURE		DATE	TELL	PHONE
COMMENTE Pritor for algorithm	a for Terminal Building determined by City Approved V	10/19/04		1612053
VINIMENTS DOUDTH HOU DEVOLUT				
			•	Check here if attachme
	SECTION G - COMMUNITY I	NFORMATION (OPTI	ONAL)	Check here if attachme
e local official who is authorized by	SECTION G - COMMUNITY IN law or ordinance to administer the community's floodp	NFORMATION (OPT) Nain management ordina	ONAL) ance can complete Secti	Check here if attachme
e local official who is authorized by rtificate. Complete the applicable it	SECTION G - COMMUNITY IN law or ordinance to administer the community's flood tem(s) and sign below.	NFORMATION (OPT) plain management ordina	ONAL) ance can complete Secti	Check here if attachme
e local official who is authorized by rtificate. Complete the applicable it	SECTION G - COMMUNITY IN law or ordinance to administer the community's floodp tem(s) and sign below. was taken from other documentation that has been sign information. (Inficate the source and date of the sign	NFORMATION (OPT) plain management ordina gned and embossed by a	ONAL) ance can complete Secti a licensed surveyor, eng	Check here if attachment ons A, B, C (or E), and G of this Ele ineer, or architect who is authorized
e local official who is authorized by rtificate. Complete the applicable it . The information in Section C to or local law to certify elevation . A community official complete	SECTION G - COMMUNITY IN law or ordinance to administer the community's flood tem(s) and sign below. was taken from other documentation that has been sign in information. (Indicate the source and date of the ele ad Section E for a building located in Zone A (without a	NFORMATION (OPT) plain management ordina gned and embossed by a wation data in the Comm a FEMA-issued or comm	ONAL) ance can complete Secti a licensed surveyor, engi aents area below.) unity-issued BEE) or 7ci	Check here if attachme
e local official who is authorized by rtificate. Complete the applicable it . The information in Section C or local law to certify elevation . A community official complete . The following information (Iter	SECTION G - COMMUNITY IN law or ordinance to administer the community's flood tem(s) and sign below. was taken from other documentation that has been sign in information. (Indicate the source and date of the ete ed Section E for a building located in Zone A (without a ms G4-G9) is provided for community floodplain mana	NFORMATION (OPT) plain management ordina gned and embossed by a avation data in the Comm a FEMA-issued or comm gement purposes.	ONAL) ance can complete Secti a licensed surveyor, engi lents area below.) unity-issued BFE) or Zoi	Check here if attachme ons A, B, C (or E), and G of this Ele ineer, or architect who is authorized ne AO.
e local official who is authorized by rtificate. Complete the applicable it . The information in Section C v or local law to certify elevation . A community official complete . The following information (Iter 4. PERMIT NUMBER	SECTION G - COMMUNITY II law or ordinance to administer the community's floodp tem(s) and sign below. was taken from other documentation that has been sig in information. (Indicate the source and date of the ele ed Section E for a building located in Zone A (without a ms G4-G9) is provided for community floodplain mana	NFORMATION (OPT) plain management ordina gned and embossed by a evation data in the Comm a FEMA-issued or comm agement purposes.	ONAL) ance can complete Section a licensed surveyor, enginents area below.) unity-issued BFE) or Zou E CERTIFICATE OF COM	Check here if attachment ons A, B, C (or E), and G of this Electronic of architect who is authorized the AO.
e local official who is authorized by rtificate. Complete the applicable it . The information in Section C v or local law to certify elevation . A community official complete . The following information (Iter 4. PERMIT NUMBER	SECTION G - COMMUNITY II law or ordinance to administer the community's floodp tem(s) and sign below. was taken from other documentation that has been sig in information. (Indicate the source and date of the ele ed Section E for a building located in Zone A (without a ms G4-G9) is provided for community floodplain mana G5. DATE PERMIT ISSUED	NFORMATION (OPT) plain management ordina gned and embossed by a avation data in the Comm a FEMA-issued or comm agement purposes. G6. DAT	ONAL) ance can complete Secti a licensed surveyor, engi ents area below.) unity-issued BFE) or Zol E CERTIFICATE OF COM	Check here if attachme ons A, B, C (or E), and G of this Ele ineer, or architect who is authorized ne AO. PLIANCE/OCCUPANCY ISSUED
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FLOOD HAZARD DEVELOPMENT PERMIT

(For completion of New Construction and Substantial Improvements)

The following information has been submitted and found compliant with the Development Standards of the Floodplain Management Ordinance:

Å

FEMA Elevation Certificate Form 81-31

Review of the structural design, specifications, plans and construction methods by a Professional Engineer or Architect certifying that they meet or exceed the technical criteria contained in the FEMA/Coastal Construction Manual and are in accordance with accepted standard of practice for meeting the criteria of Article VI.K.2.

A Part II Flood Hazard Development Permit is hereby issued as provided under Article V § F of the Floodplain Management Ordinance of POT LANA, Maine, for development as defined in said ordinance.

Lot #: A - 002 Tax Map:

The permittee understands and agrees that:

- The permit is issued on the representations made herein and on the elevation certificate;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view and;
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and the attachments to this permit are a true description of the existing property and the proposed development project.

Owner 1 ust	- John Teed	+ Ceer	Ine 10/6/06	
7 or	signature AES15tan	A Project	Manger	
Authorized Agent		Date		
	signature	•		
Issued by	1 chunch	Date	10/0/06	
Permit #	0		· ·	

<u>SBM</u> Associates, inc. ARCHITECT	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
Fax # <u>874-871(a</u> Number of pages including co Fax to: <u>Milce No</u>	over: <u>2</u> JGEF ^g]	Date: 12 22/05 Project #: From: FETE 54 Re: 585 R11 Baily D'A	HERGIDE

This message, and its contents, is intended to be read by only the individual or entity to which it is addressed. It may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you, the reader of this message, are not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, do not read the message or the contents contained, and instead, please deliver this message to the intended recipient. You are hereby notified that any dissemination, distribution or coping of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message and contents to us at the address below via the Postal Service. Thank you.

Message:

WE FILE

14 Deer Run Drive Gorham, Maine 04038 (207) 839-2420 Fax (207) 839-5883 E-Mail SBM111@maine.rr.com

Parking Evaluation Ocean Gateway Facility Portland, Maine

Prepared for:

Woodard & Curran 41 Hutchins Drive Portland, ME 04102

January 2004

Prepared by:

Traffic and Civil Engineering Services

PO Box 1237 15 Shaker Road Gray, ME 04039 (207) 657-6910 Fax : (207) 657-6912 E-mail: mailbox@gorrillpalmer.com

I. Existing and Proposed Conditions

The site currently consists of the Casco Bay Island Transit District (CBITD) terminal and support operations, as well as operations related to the Amethyst (CIANBRO) project including parking (concentrated on the Portland Ocean Terminal site). The Amethyst Project is supported on-site by a 90,500 sq. ft. transit shed (warehouse), and 35,000 sq. ft. of office space on the second floor of the transit shed. The northern portion of the site is largely undeveloped, consisting of asphalt and gravel, which provides parking for island residents who commute via CBITD, local business tenants, and tenants of the 144 Fore Street office building.

The Ocean Gateway Phase 1 Project proposes the Portland Ocean Terminal site and associated abutting land would be fully developed to accommodate cruise ships, Scotia Prince Cruises (relocated from the International Marine Terminal), and other marine services. In addition, future improvements to circulation and loading areas are being planned for the CBITD facility. The Ocean Gateway Phase 1 Project consists of the following:

- > Expanding Pier 2 to accommodate deep-water vessels (cruise ships)
- Creating parking areas consisting of a total of 476 parking spaces to support the Ocean Gateway site tenants.
- Creating a Receiving Station (for passenger ticketing and screening) at the head of Pier 2
- Retrofitting the Portland Ocean Terminal (POT) existing guardhouse to accommodate a Vehicle Inspection Station, and creating a covered multi-lane vehicle inspection area
- Establishing areas for queuing vehicles coming to and from the M/S Scotia Prince.
- Creating of a Terminal Building (on Pier 2) and a passenger ramp linking the Terminal Building to the Receiving Station.
- > Extending Commercial Street approximately 1,000 feet to the northeast.
- Creating a new portion of Hancock Street from Fore Street to the extended Commercial Street.
- > Maintaining the existing marine industrial uses and office space at the site.

II. Existing Parking Supply

Gorrill-Palmer Consulting Engineers, Inc. and Woodard & Curran met with the City staff on November 26, 2003, to review the existing parking supply on the Ocean Gateway site. Table 1 presents the various categories of parking supply for each of these existing uses. The location of each of these uses is illustrated in Figure A.

Table 1- Existing Parking Supply				
POT Daily Lot	89			
Front Lot	83			
Rear Lot	70			
Marine Ops Lot	90			
Fore Street Lot East	160			
Fore Street Lot West	80			
Total	572			

III. Future Ocean Gateway Parking Demand

Gorrill-Palmer Consulting Engineers, Inc. and Woodard & Curran reviewed the future parking demands associated with the various users of the Ocean Gateway project with the City staff. An important component of the project is to provide parking for the tenants and users to meet their operational requirements. Following is a description of the tenants and users of the project for which parking will be required. Table 2 presents the various categories of parking demand for each of these uses, and the location of each of is illustrated in Figure A.

- \geq Scotia Prince Cruises - Scotia Prince Cruises will be relocating from the International Marine Terminal (IMT) to Pier Two, Berth One at the Ocean Gateway facility. Peak operations from a traffic perspective occur during the evening hours, as the M/S Scotia Prince vessel arrives in port at 7:00 PM and departs at 8:00 PM. However, as the City will continue to encourage passengers to arrive throughout the day to visit local businesses, we are planning for passengers to arrive throughout the day. As it relates to parking demand, Scotia Prince Cruises passengers can purchase tickets for the vessel with several options; among them is to travel with a vehicle or without. It is those passengers that travel without their vehicle that create the parking demand. With a passenger capacity of 1000, crew capacity of 200, and a vehicle capacity of 200, a percentage of the passengers are walk-on and require overnight and longer-term parking. The parking demand will be required 24 hours per day, between May and November.
- Cruise Ship Cruise ships currently are accommodated at Pier One. The proposed project will provide a new berth (Berth Two) at the Ocean Gateway facility on Pier Two. The berth will be a port-of-call berth and is not proposed for home-porting a cruise ship, and therefore parking needs are for operational staff. These spaces are required from 7:00 AM to 10 PM from June thru November
- Customs and Border Protection (CBP) While staff offices will remain at the IMT, CBP personnel are required at the site during the operation of the Scotia Prince, requiring spaces from 5:00 PM to 9:00 PM during the months of May thru November.
- Portland Ocean Terminal and City Staff To accommodate 35,000 sq. ft. of office currently on the second floor of the transit shed, and based upon meetings with the zoning administrator and City staff, parking demand was determined that

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2

would meet the needs of the office space and the intent of the City Ordinance. These spaces are required from 7:00 AM to 5:30 PM year round.

- Portland Ocean Terminal Industrial Users Marine industrial operations similar to the Cianbro operations currently on site, and planned for the future. These people require parking from 7 to 5:30 year round and are supervisory personnel. Consistent with current operations, the majority of workers will continue to be shuttled.
- > Tugs To support the marine operations in the port, a demand for both operational and service crew parking is necessitated. This parking is required year round 24 hours per day.
- Casco Bay Island Transit District (CBITD) Employees While not a direct tenant or user of the proposed project, as a result of the anticipated relocation of employee parking stemming from planned improvements project, a parking demand will be created and requires year round 24-hrs per day spaces.

Table 2- Future Ocean gateway Parking Demand				
Scotia Prince	279			
Cruise Ships	15			
Customs	15			
Portland Ocean Terminal and City Staff	65*			
Portland Ocean Terminal Industrial Users	25			
Tugs	15			
Casco Bay Island Transit District Employees	25			
Total	439			

*This exceeds the requirements of the ordinance. Per Division 20 Off-Street Parking, Section 14-332(10), for offices (professional and public buildings), One (1) parking space is required for each four hundred (400) square feet of floor area. Further, per Division 18.5 Waterfront Port Development Zone, Section 14-320.3(8), off-street parking is required at fifty percent (50%) of the required parking spaces in Division 20. Therefore, 44 spaces are required for the 35,000 sq. ft. of office space located on the second floor of the transit shed.

IV. Future Ocean Gateway Parking Supply

Table 3 presents the parking supply which will be available upon completion of the Ocean Gateway project.

Table 3- FUTURE Ocean gateway Parking Supply				
Hancock Street Lot (west)	100			
Commercial Street Lot	279			
Waterfront Lot	97			
Total	476			

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As shown in Table 3, the proposed parking supply will exceed the estimated Ocean Gateway Parking demand of 439 spaces.

V. Parking Demand Management for Ocean Gateway

To provide the maximum efficiency of the use of the Ocean Gateway parking supply, we have reviewed the parking demand with the specific parking demands of Scotia Prince Cruises. As a result of differing parking demand times, we have determined that 113 spaces can be shared in the same parking and queue areas to be utilized by Scotia Prince Cruises as shown in Table 4 below. This shared parking further reduces the anticipated demand to 354 spaces. To that end, the Scotia Prince Cruises parking demand is based upon its operational season, currently between May and November. During the months of December through April, this parking demand by Scotia Prince Cruises will decrease significantly and the parking demand will be limited to off-season employee parking, during normal business hours.

Table 4 summarizes the parking management plan proposed for the Ocean Gateway project. The table summarizes the spaces required and those provided on site in the surface parking lots as part of the Ocean Gateway project.

Table 4- Ocean gateway Parking Management Plan					
Use	Spaces Required	On Site	Shared		
Scotia Prince	279	279			
Cruise Ships	15		15		
Customs	15		15		
Portland Ocean Terminal and	65	37	28		
City Staff					
Portland Ocean Terminal	25		25		
Industrial Users					
Tugs	15		15		
Casco Bay Island Transit District	25	10	15		
Employees					
Total	439	326	113		

*shared parking utilizes on site spaces where parking demand times permit and is anticipated to occur prior to 5:00pm.

VI. Additional Constituency Parking Demand

In addition to the demands associated with the Ocean Gateway project, there is additional parking demand that is currently being satisfied within the project area, and on the Ocean Gateway site. As a result of the Ocean Gateway project, some of that parking will be displaced and needs to be accommodated elsewhere. Each of the constituencies utilizing the current parking supply are described as follows:

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- Islanders- Residents of the City's island communities require mainland parking on both a seasonal and year-round basis. These spaces are required to be available 24 hours per day, year round. Based on discussions with City staff and public input, the anticipated demand for spaces has been based upon the most current supply at the Portland Ocean Terminal facility and abutting parking lots.
- Auto Europe- Auto Europe is located in the Gault building and provides reservations for car rentals across the world. Employees require parking from 7:00 AM to 5:30 PM Monday thru Friday.
- Fore Street Offices- The 144 Fore Street building currently accommodates SMRT, Xpress Copy and other service based tenants.

Table 5 summarizes the estimated parking needs of these additional constituents.

Table 5- ADDITIONAL CONSTITUENTS PARKING DEMAND				
Use	Spaces Required			
Island Residents	240			
Auto Europe	130			
Fore Street Offices	50			
Total	420			

VII. Conclusion

As demonstrated by comparing Table 2 and Table 3 of this Assessment, the proposed parking supply (476) will exceed the Ocean Gateway project parking demand (439), resulting in 37 surplus or additional spaces. With further mitigation through shared parking as described in Section V of this Assessment and summarized in Table 4, a total of 326 spaces of the 476 will be utilized by the Ocean Gateway project tenants and users. As a result, 150 spaces of the 476 (supply) provided as part of the Ocean Gateway project will be made available to the additional constituents described in Section VI.

While we recognize the total demand of the additional constituents could be 420 spaces, we anticipate the demand not accommodated by the Ocean Gateway project parking surplus will be satisfied within the public and private sector. Within these sectors, a number of facilities exist, possibly including the surface parking at the Portland Fish Pier, the International Marine Terminal parking lot (to be vacated by Scotia Prince Cruises), private garages within the City, and possibly the planned eastern waterfront parking garage currently being advertised by the City of Portland.

The parking management plan proposed addresses the parking demand associated with the Ocean Gateway Project and is consistent with the design criteria established for the Ocean Gateway project and provided to the City Council.

JN 426.1

January 2004

From:	Marge Schmuckal		
То:	William Needleman		
Date:	Mon, Aug 8, 2005 9:33 AM		
Subject:	Ocean Gateway		

Bill,

I have a building permit application for this project. Can I get a stamped approved site plan from you? Are we able to issue a building permit?

Thanks,

Marge

8/1 er in praining

	1	David Senus, P.E.
	C:	BEA International Shirley Xue, P.E.
	FROM:	Haley & Aldrich, Inc.
OFFICES Boston Massachusetts	SUBJECT:	Foundation Recommendat Relocated Receiving Static
Cleveland Ohio		views of foundation requirements for the
Dayton Ohio Detroit	This memoran portion of the BIW Shorezon	dum presents the results of uations of receiving into the limits of the formation proposed Receiving Station y be relocated into the limits of the formative are Containment Area (SCA) ribed in the Value-Analysis Alternative
Michigan Hartford Convecticut	Proposal No.	20.1 (VAAP-20.1). This we undertaken at your request and the our proposal dated 7 Nov2005.
Kansas City Kansas	The VAAP-20 District 33 inc	1.1 proposes to move the Reg Station to avoid the existing Portland Wassenergy 1.1 proposes to move the Reg Station to avoid the existing line No. 1. The
Los Angeles California	original buildi provided found	ng location was sited entirelye north of the granite older 2003 dation design and constructicommendations in a 17 November 2003
New Hampshire Parsippany	memorandum along Building	to Woodard & Curran. The used relocation re- s Line No. 9 being positioned e south of the seawall. It appears that one building line 0 from A twill be located over water, and foundations
New Jersey Providence Rhode Island	along 9 line fr	om C to H will be located wi the limits of the SCA.
Rochester New York	The SCA was under the Main	originally designed as a drecspoil disposal and the DEP) Voluntary Response ne Department of Environmel Protection (MaineDEP) Voluntary Response The VRAP certification of completion
San Diego California	dated 25 July 2 prohibited with	2000 indicates that "Excavati of soils beneath the geosynulette grant that hout written permission of thDeaprtment".
Santa Barbara California Tucson	Our primary e	ffort to date has been to asse foundation requirements for the foundations the
Arizona Washington	will be relocat seawall can be	ed into the SCA area. In ourophilon, recommendations contained in our re- e designed in accordance with the recommendations contained in our re-
District of Columbia		Prender for Self a construction

41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, New York, New York, Florida *Operational offices throughout the U.S.*

Γ	R	A	Ν	S	Μ	IT	Ţ	A	L

TO:	Mike Nugent, Manager			DATE:	August 4, 2005		
	Inspection Services Program			PROJECT NAME:	Ocean Gateway		
	City Hall – Room 315			PROJECT NUMBER:	203438		
	Portland, ME	04103					
RE:	Technical Specifications (Book 2) – Ocean Gateway Project						
WE ARE SENDING:							
Quotation Drawings			ngs	Bid Package	Floppy Disk / CD		
Brochure Schedule			1ule als	Installation Package	L_ Sample		
Qty	Doc. No.	Rev. No.	Dated		Description		
1			2005	Book 2 of the Ocean (Gateway Specifications		
					-		
1	For Your:		A BARA	Sent By:			
					R		
Mike:							
I understand that Reed & Reed provided you with a full size copy of the plans along with Book 1 of the specifications. This copy of Book 2 completes the set. Please let Dustin Littlefield at Reed & Reed know if you need any other information							
These and a second secon							
Dave Senus							
CC: Dustin Littlefield, Reed & Reed BY: DAS							

ΚΕΥ ΤΟ Μ	AP
500-Year Flood Boundary	TONER
100-Year Flood Boundary	
Zone Designations*	
100-Year Flood Boundary	
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
Zone D Boundary	
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE EXPLANATION

- A Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
- A0 Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
- AH Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
- A1-A30 Areas of 100-year flood; base flood elevations and flood hazard factors determined.
- A99 Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
- B Areas between limits of the 100-year flood and 500year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
- C Areas of minimal flooding. (No shading)
- D Areas of undetermined, but possible, flood hazards.
- V Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
- V1-V30 Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance and flood plain management purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

For adjoining map panels, see separately printed Index To Map Panels.

Coastal base flood elevations shown on this map include the effects of wave action.

Coastal base flood elevations apply only landward of 0.0 NGVD.

C FILE

225 Douglass St. • P.O. Box 3553 • Portland, ME 04104-3553

(207) 774-5961 FAX (207) 761-8307 www.pwd.org

November 13, 2003

Ken Volock Woodard & Curran 41 Hutchins Drive Portland, Maine 04102

Re: Ocean Gateway Phase I – Portland Harbor

Dear Mr. Volock,

In response to your letter dated November 11, 2003, please accept this letter as confirmation that adequate capacity at the Portland Water District's India Street Pump Station and East End Wastewater Treatment Facility exists to accommodate the estimated 6,300 GPD of sewage that will be generated as a result of the above referenced project.

Average daily design flow at the facility is 19.8 million gallons per day (mgd). Current average daily flow is 16.38 mgd.

If you have any further questions, please contact me 774-5961 ext. 3075.

Regards,

Portland Water District Michael Greene Plant/Systems Manager, Wastewater

C: S. Rose, Maine DEP Eric Labelle, City of Portland

STATE PLANNING OFFICE FLOODPLAIN MANAGEMENT PROGRAM W. LOUIS SIDELL, JR. 287-8063 e-mail: lou.sidell@state.me.us SUE BAKER 287-8051 e-mail: sue.baker@state.me.us BONNIE BOULTER 287-8052 e-mail: bonnie.boulter@state.me.us 184 State Street 38 State house Station Augusta, Maine 04333-0038 Toll Free (800) 662-4545 Fax (207) 287-5756 OR (207) 287-6489 3 6 Lowist floor Velocity Zone State Exer, orden 3/30 Ocen GATE Side low

From:	Marge Schmuckal			
То:	ALEX JAEGERMAN; Lee Urban; PENNY LITTELL; Sara			
Date:	Wed, Mar 31, 2004 2:40 PM			
Subject:	Floodplain - Oceangate			

This is not really good news.

Yesterday, I spoke with Lou Sidell who is the manager of the Floodplain Management Program under the State Planning Office. He confirmed that FEMA (in Boston, our area office) is the only body who can revise the FEMA maps. Mike Getz is the contact person at that Boston office. Lou Sidell (and Bonnie Boulter who I also spoke to in the State Office) has confirmed that they have gotten several calls on this project within the last couple weeks, including most recently Eric Labelle.

Section 14-450.8(p)1 of the ordinance states that all new construction located within all "A" zones and "V" zones shall be located landward of the reach of mean high tide. We are in the process of removing that requirement based on previous conversation I have had with the State Floodplain Management folks. It has been clarified that we can only remove that section for any "A" zones. However, because of how the Federal regulations are written, we can **not** remove the section referring to construction over water in "V" zones. This is vital if the request to FEMA does not result in a change of the entire project boundary (pier and welcoming station) to an "A" zone.

Lou Sidell is also concerned because of the State funding involved. That also brings his office directly into the mix.

Marge
City of Portland, Maine Code of Ordinances Sec 14-450

Land Use Chapter 14 Rev. 2-21-01

- At least two (2) feet higher than the depth a. specified in feet on the community's Flood Insurance Rate Map; or
- At least three (3) feet if no depth number is Ъ. specified.
- Zone A shall have the containment wall elevated to 4. at least two (2) feet above the base flood elevation utilizing information obtained pursuant 14-450.6(b)4.a.ii.; section section to . ", 14-450.7(a)4; or section 14-450.7(c)1. .37
- Wharves, piers and docks: New construction or substantial (0) improvement of wharves, piers, and docks are permitted in -Zones A, A1-30, AE, AO, AH, V1-30, and VE, in and over water and seaward of the mean high tide if the following requirements are met:
 - Wharves, piers, and docks shall comply with all 1. applicable local, state and federal regulations; and
 - Commercial wharves, piers, and docks involving fill 2. adhere to the design and construction shall standards contained in the U.S. Army Corps of Engineers' Shore Protection Manual.
- (p) ²²Coastal flood plains:

1.0

-75

- ×1. All new construction located within Zones A1-30, AE, A, V1-30 and VE shall be located landward of the reach of mean high tide except as provided in section 14-450.8(p)7.
 - 2. New construction or substantial improvement of any structure located within Zones V1-30 or VE shall:
 - a. Be elevated on posts or columns such that:
 - i. The bottom of the lowest horizontal structural member of the lowest floor (excluding the pilings or columns) is elevated to two (2) feet above the base

14-482

11/26/03 BArry Sheff DAVID COLAY OCEAN GATZ PArking BIL W. m Sta - 476 spaces John PeverAd MAge TOMFRICED No handla on whot is The Dental? We proposed a state doesn't of off-site Tom Garill (LAny Late) OISLANDERS Displacement aberrist of requirement month to month pur Ible n 30 days Pier Ibly Buto-Emope Pier Ibly Budustrial usesfor ME. State Pier Current mountory [00,000:100:50]
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CONFIDENTIAL



CITY OF PORTLAND, MAINE

M E M O R A N D U M

To: Joseph Gray, City Manager

via: Jeffrey Monroe, Director

From: David Cohan, Waterfront Asset & Development Manager John Peverada, Parking Manager

Date: August 22, 2003

Subject: Waterfront East End Garage Parking Demand Analysis

EXECUTIVE SUMMARY:

Overall Bulk Demand Analysis:

900 – 1,500 parking spaces needed.

OTimed Demand Analysis:

625 - 825 parking spaces needed "Day 1" (Dec. '04).

915 – 1,115 spaces needed within six to eight months (by July '05).

1,070 – 1,585 spaces needed to accommodate Scotia Prince operations and anticipated near-term additional contiguous development.

BACKGROUND:

The City is contemplating subsidizing the development of a new parking garage on the east end of the waterfront through the use of TIF credit enhancements and a master lease for a large number of spaces.

Two parking demand analyses have been done to estimate both the overall bulk potential for parking demand related to this garage as well as the immediate and phased time demand that will help in understanding the City's potential master lease obligations and the most appropriate size and capacity for the new garage.

Overall, a bulk demand analysis would appear to show that between 900 - 1,500 spaces will probably be needed given the existing known parking needs, re-use of the former BIW Shipyard facility as an industrial working waterfront use site, and anticipated new development related to both the Ocean Gateway project, relocation of the Scotia Prince, nearby private development, and loss of existing surface parking facilities.

A more detailed demand analysis that takes into account certain development assumptions and timing appears to demonstrate an immediate demand in December 2004 (the assumed opening date) for 325 parking spaces. This is in addition to at least 300 spaces that will be needed by Olympia Equity related to its hotel and new office building use.

In addition, a new office building will most likely be developed just in front of this new garage on a building pad site that will front along a newly extended Commercial Street and this new office building and its associated retail space could create demand for at least an additional 115 parking spaces in this new garage.

This demand may quickly grow to 530 parking spaces within six months and may reach greater than 600 spaces during the height of the first full summer season.

Additionally, once the Scotia Prince is relocated to the Ocean Gateway project beginning in the late spring of 2006, parking demand may increase to at least 770 parking spaces (plus the Olympia Equity parking needs).

MASTER LEASE CONSIDERATIONS:

The City is being asked to be financially responsible for approximately 385 parking spaces under a master lease agreement. Upon the completion of the new garage in December 2004, we feel comfortable that we will be able to fill a minimum of 325 spaces, as follows:

Estimated Parking Demand	Dec-04
Islander Monthly Parking	150
Scotia Prince Parking	0
Auto-Europe/Adjacent Biz	95
POT Tenants	75
City/CBITD	5
"Master-Lease" Subtotals	325

In addition, the immediate demand should grow to cover all of the City's master leased spaces within the first five months.

The parking demand anticipated is based on some of the following assumptions:

- 1.) 227 people are currently wait-listed at the Casco Bay Garage;
- 2.) Over 150 islanders are currently renting spaces now in the Portland Ocean Terminal surface parking lots;
- 3.) The Portland Ocean Terminal spaces currently rented by Cianbro will be released; and
- 4.) The City's Assessor's office confirms that there are currently 675 year-round island homes and 322 islanders currently parking in the Casco Bay Garage. This would appear to leave approximately 350 potential parkers at an average of one car per year-round household.

SOURCES OF PARKING DEMAND:

- Islander Monthly Parking
- Daily/Transient Customers
- POT Tenants (i.e., Cianbro, tugboats, & others)
- Nearby Business Contracts (i.e., Auto-Europe)
- City of Portland (Dept. of Transportation & City needs)
- CBITD (employees)
- New Olympia Equity Office Building Tenants
- Hotel Use
- Scotia Prince (Customers, employees, and Customs Dept.)
- Contiguous Anticipated Office and Retail Development

DETAILED DEMAND ANALYSES:

Please see attachments for detailed projections.

ParkingDemandMmo082103a

: EXG	Relater to	0) POTDAily lot: 64 DAily SPACE + 25-Tus Bon Sparks
	- Jhow J	2 9
East End Waterfront Parking Gar	age	
Bulk Parking Demand & Potentia	I Use Estimate	j i
		là casa fin the ly interd
Potential Parkers	Spaces	Comparent New Joren 1
Probable Demand		THE TERP ST- 135 SPACES + /75 m- Jup - 6440
Islander Monthly Parking	250	-30 Holden North
International Ferry Parking	300	Zani 155 med
Auto-Europe	125	160
POT Tenants	100	
Hotel	50	CILLE aziter, find.
Existing Businesses	50	F(mt6) - 0) \$ mos/14+5/04
City/CBITD Use	25	manthalin 1 + 5
Subtotal	900	main 10
Additional Growth Demand		Som (25 AutoEmpe)
New Old Port Offices	300	7? uptoso/
Grand Trunk Pad Offices	100	Dult Jocan
Additional POT Tenants	50	Kerrol - 10 States all cont
Additional Island Demand	100	MI Standay
New On-Site Offices	40	
New On-Site Retail	10	
Subtotal	600	1 Carlet a manual
		1 LAMON LA 40 (00 SDACK
Grand Total	1.500	

Grand Total 1,500

AutoEmope (d-80 spaces

30 New SPACES from SMRT Where they the pskion (itylad



Timed Parking Demand Worksheet											
FY	'05	'05	'05	'05	'05	'05	'05	'06	'06	'06	'06
Month	1	2	3	4	5	6	7	8	9	10	11
	Opening										
Parking Demand	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05
Islander Monthly Parking	150	175	175	175	175	200	225	250	250	250	250
Scotia Prince Parking	0	0	0	0	0	0	0	0	0	0	0
Auto-Europe/Adjacent Biz	95	95	95	95	95	100	100	125	125	125	125
POT Tenants	75	75	75	75	75	100	150	150	150	150	150
City/CBITD	5	5	5	5	5	15	15	15	15	15	15
"Master-Lease" Subtotals	325	350	350	350	350	415	490	540	540	540	540
Daily/Transient	20	20	20	20	20	40	40	75	75	75	50
Totals	345	370	370	370	370	455	530	615	615	615	590



Additional Contingent Demand	
Additional POT Tenants	1
Additional Island Demand	1
Total	2

Olympia Dovolonment	Domond	
	Demanu	
	Hotel	5
New Fore St. Of	fice Bldg.	25
	Total	30

Near-Term Development De	emand	
Scotia Prince P	arking	30
New Comm'l St. Office	Bldg.	10
New Comm'l/Hancock	Retail	1
Islander Fore St. Lot Re	devel.	10
Contiguous Develo	pment	10
	Total	61

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City of Portland, Maine EASTERN WATERFRONT CITY PARKING FACILITIES

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Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Lee Urban- Director of Planning and Development Marge Schmuckal, Zoning Administrator

August 19, 2005

Dustin Littlefield Reed & Reed 275 River Rd Woolwich, ME 04579

RE: City of Portland Ocean Gateway Terminal & Receiving Station – 444-A-005 Application #05-1055 – Floodplain forms and certificate of elevation

Dear Mr. Littlefield,

I am in receipt of your application for the Ocean Gateway project. I have attached Floodplain forms that must be filled out and returned prior to construction. Please note that the lowest horizontal member must be elevated two feet above the base flood elevation (bfe). This office requires a P.E. certification that the construction will be in accordance with the Coastal Construction Manual. The enclosed elevation certificate shall be completed as required and returned appropriately.

If you have any questions regarding this matter, please do not hesitate to contact me at (207) 874-8695.

Very truly yours,

Marge Schmuckal Zoning Adminstrator City Hall, room 315 389 Congress Street Portland, ME 04101

enclosures



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CITY OF PORTLAND, MAINE PLANNING BOARD

Orlando E. Delogu, Chair Lee Lowry III, Vice Chair John Anton Kevin Beal Michael Patterson David Silk Janice E. Tevanian

June 8, 2004

Capt. Jeffrey Monroe, Director City of Portland Department of Ports and Transportation Portland Ocean Terminal 40 Commercial Street Portland, Maine 04101

RE: Ocean Gateway Approval

CBL: 444 A005001

Dear Capt. Monroe,

On May 25, 2004, the Portland Planning Board voted unanimously to approve the following motions regarding the Øcean Gateway Marine Passenger Terminal:

Subdivision

- 1. That the plan is in conformance with the subdivision standards of the land use code, subject to the following conditions of approval:
 - a) That a final subdivision recording plat with all appropriate easements and rights of way be provided for review and approval of the City Planning Authority, Public Works and Legal staff and for signature by the Planning Board prior to issuance of a building permit.
 - b) That the applicant receives written permission from the owners of One India Street for the construction of public infrastructure on the 12 foot strip of land running southerly along the One India Street building.
 - c) That the State of Maine Department of Transportation provides an executed deed for the change of railroad right of way, as shown on the approved subdivision plans.

Flood Plain

- 2. That the plan is in conformance with the Flood Plain Management standards of the land use code, subject to the following conditions of approval:
 - a) That the terminal building be designed with a finished floor elevation of not less than 12.3 feet NGVD.

- b) That an elevation certificate (FEMA form 81-31) be provided by a registered professional engineer or architect to the Zoning Administrator prior to issuance of a Building Permit.
- c) That proof of approval of all other applicable Local, State and Federal permits be provided prior to issuance of a Building Permit

Shoreland

3. That the plan is in conformance with the Shoreland Management standards of the land use code.

Waiver of Site Lighting Standards

- 4. That the proposed lighting plan (will not) produce unacceptable levels of glare and/or light trespass and therefore the Site Lighting Standards for this application (are) waived, subject to the following condition of approval:
 - a) That all flood type fixtures used in the Ocean Gateway vehicle queuing area be turned off except during active operations, or as required by regulatory authorities or for security.

Site Plan

- 5. That the plan is in conformance with the Site Plan standards of the land use code, subject to the following conditions of approval:
 - a) That any proposed additional scheduled ferry or cruise ship operations to the Ocean Gateway facility (such as international or coastal ferry service, or permanent home port cruise operations) that results in significant vehicular circulation changes, additional on-site parking demands over 25 spaces, or major facility infrastructure expansion, over that proposed with this application, shall come to the Planning Board for review and approval consistent with City ordinances. Said services, as appropriate, shall be reviewed as amendments to the site plan and shall need to demonstrate adequate parking and traffic management to satisfy all applicable site plan standards.
 - b) That final construction drawings for the Ocean Gateway site plan be provided for the review and approval of the Planning Authority staff prior to issuance of a building permit.
 - c) In the event that a parking garage, with spaces available for use by the Ocean Gateway facility, is not constructed prior to commencement of ferry operations, then a park and ride shuttle service will be implemented as needed to ensure the functional viability of industrial uses at the Maine State Pier.
 - d) That any dumpster locations proposed for the site be shown on the final site plan with fully screened dumpster enclosure details added to the Site Details for Planning staff review and approval.
 - e) That a signage plan be submitted for review and approval of the Planning Staff.

- f) That any revisions to the containment area landscape treatment incorporating a percent for art project shall be submitted to the Planning Authority for review and approval.
- g) At such time as a parking garage, located in the Franklin Arterial/Fore Street/Commercial Street/Portland Yacht Services block is constructed, then the 97-space easterly parking lot shall be removed and re-vegetated in accordance with a plan to be approved by the Planning Board. If no such garage structure is constructed within five years of the issuance of a building permit (for Ocean Gateway), then the applicant shall prepare and submit a plan for the review and approval of the Planning Board for the replacement of the 97 parking spaces, and for the elimination of such existing 97-space easterly lot and for re-vegetation of such area.

The approval is based on the submitted plan and the findings related to the applicable review standards as contained in Planning Board #19-04, which is attached.

\$

Please note the following provisions and requirements for all site plan and subdivision approvals:

- 1. Mylar copies of the construction drawing for the subdivision must be submitted to the Public Works Department prior to the release of the plat. Where submission drawings are available in electronic form, the applicant shall submit any available electronic CADD.DXF files with the final plans."
- 2. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount must be submitted to and approved by the Planning Division and Public works prior to the recording of the subdivision plat. The subdivision approval is valid for three (3) years.
- 3. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 4. Prior to construction, a preconstruction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the preconstruction meeting.
- 6. If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

7. The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The Development Review Coordinator can be reached at the Planning Department at 874-8632. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions regarding the Board's actions, please contact Bill Needelman, Senior Planner at 874-8722.

Sincerely,

Sincerely, Ortin de Delogu

Portland Planning Board

Lee D. Urban, Planning and Development Department Director cc: Alexander Jaegerman, Planning Division Director Sarah Hopkins, Development Review Services Manager Bill Needelman, Senior Planner Jay Reynolds, Development Review Coordinator Marge Schmuckal, Zoning Administrator Inspections Michael Bobinsky, Public Works Director Traffic Division Eric Labelle, City Engineer Jeff Tarling, City Arborist Penny Littell, Associate Corporation Counsel Lt. Gaylen McDougall, Fire Prevention Rick Blackburn, City Assessor Approval Letter File Paul Pottle, PE, Project Manager, MDOT Barry Sheff, PE, Project Manager Woodard and Currran Engineers

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C O N S U L T I N G E N G I N E E R S

PND No. 00439.30

October 20, 2005

Mr. Barry Sheff Woodard & Curran 41 Hutchins Drive Portland, ME 04102

RE: Request for Waiver of Static Load Test

Dear Barry:

As you know, the original contract drawings call for a Static Pile Load Test for the bearing piles on Pier A. This is in compliance with the 1999 BOCA Code. It is now desired, by the project, to substitute a Dynamic Pile Load Test for the static test. This test method is acceptable to PND and we support a request for waiver from the Building Department for the following reasons:

1) During the development of the 1999 BOCA Code, dynamic testing techniques for determining pile capacities were just gaining reliability and acceptability in the industry. Since that time they are generally considered equivalent and in fact are given that status in the 2003 IBC Code, Section 1808.2.8.3 Load test, "...control test piers or piles shall be tested in accordance with ASTM D1143 or ASTM D4945." This is reference to the static and dynamic testing in the ASTM standards.

2) With the results of the dynamic testing and the information recorded during the dynamic test procedure, the remaining production driven piles that drive with similar characteristics actually become a verifying load test comparable to the original dynamic test. Thereby providing many pile tests instead of one pile test if the static criteria were used.

If you have any additional questions, please contact me at any time.

Sincerely, PND Incorporated | Seattle Office

David Preice

David Pierce, P.E., S.E. Senior Vice President

3/24/04



CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, Florida Operational offices throughout the U.S.

MEMORANDUM

TO: Joe Gray, City of Portland City Manager

FROM: Barry Sheff, P.E.

DATE: March 3, 2004

RE: Shoreland Regulations and Flood Plain Management Regulations Ocean Gateway Base Flood Elevation Design Basis

There is an omission of the existing Pier 2 from the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM); we propose that the flood elevation for the Pier 2 improvements be established as A2 zone.

We have reviewed the FIRM Community-Panel Number 230051 0013B and 0014B prepared by FEMA to determine the 100-year flood elevation for establishing building elevations and complying with the City of Portland's Code of Ordinances. The flood zones and their corresponding elevations are indicated on the FIRM. Determining the applicable flood elevation for the project however, is complicated by the fact that the existing Pier 2 is not reflected on the FIRM. The omission of the existing pier is likely due to the timing of the 1979 aerial mapping relative to the timing of the pier's 1982 construction.

At the project site, the property landside of the existing bulkhead is within the A2 flood zone, with a 100year base flood elevation of 10 feet NGVD (14.57-feet MLLW). Also on the project site and along the Fore River, a special flood hazard zone extends roughly 250-feet from the A2 zone into the river; a V2 zone with a flood elevation of 13-feet NGVD (17.57-feet MLLW). The special flood hazard zone includes a velocity hazard associated with waves of 3-foot amplitude or greater. A copy of the FIRM is attached as Figure 1. The existing Pier 2 was constructed in 1982 at an elevation of 11.77-feet NGVD (16.34-feet MLLW); and prior to that, the Maine State Pier was constructed in 1922 at the same elevation.

As the existing Pier 2 is not depicted on the FIRM, W&C superimposed the pier onto the FIRM (see Figure 2) and found the southern half of the existing pier located seaward of the mapped flood hazard zones, not within any mapped zone. Without a mapped zone, for W&C to assess and determine the project site flood elevation, we look to FEMA's methodology, the findings of the Flood Insurance Study, and the mapping on the surrounding area. The A2 flood zone on the site and abutting areas overlay onto all of the existing piers in Portland (on the Fore River); including the Maine State Pier, the abutting Galt Wharf and those wharves and piers extending up the Fore River to Union Wharf and ultimately to the International Marine Terminal, refer to Figure 1. The FIRM indicates flood zone boundaries (and elevations) are in part delineated by pier structures. It appears that all piers which existed along the Portland waterfront at the time of the FIRM development were placed into the A2 zone. Locations seaward of the existing piers were mapped as V2 and V3 zones, see Figure 2.

FEMA's means of establishing base flood elevations in coastal areas (V zones) are controlled by the highest of the wave crest elevation (wave height) or the wave runup elevation. In coastal areas where the ground is "gently sloping", the wave crest elevation is generally the defining parameter; resulting from water depth, astronomical tide, wind setup, pressure setup, and wave setup. Alternatively, on steeply sloped shorelines (with revetments or vertical walls), the flood elevation from wave runup is generally



higher than the wave crest elevation, and the wave runup elevation controls. In the area of the site and extending upriver along the Fore River, vertical walls are commonplace and we anticipate the wave runup elevation was the controlling factor in determining the extent and elevation of the V zones.

In reviewing the applicability of the A2 zone base flood elevation, we also referenced the historic elevation data from the NOAA tide gauge on the Maine State Pier, established March 4, 1910. This tide station is on the project site and is reflected on Figures 1 and 2. The factors of storm surge waves, breaking waves, and the unimpeded reaches between obstructions which affect the tide gage level would be similar at the adjacent Pier 2. The record level elevation of 9.6-feet NGVD (14.17-feet MLLW) was recorded at on February 7, 1978, during the so-called Blizzard of '78. This record level corresponds well with the 10-feet NGVD of the A2 zone.

We understand that in the absence of a mapped flood hazard zone at the proposed Terminal Building, the Zoning Administrator has interpreted the FIRM to include the existing Pier 2 structure within the V2 zone, base flood elevation 13-feet NGVD (17.57-feet MLLW). It is our opinion that the mapping techniques, methodology, and historical data do not support this interpretation.

It is our opinion that based upon the information reviewed, the A2 zone with a base flood elevation of 10feet NGVD (14.57-feet MLLW) is the appropriate 100-year flood elevation for the project site. The A2 zone is applicable to existing piers and the pier expansion at the Ocean Gateway site via transition of the same mapping technique exhibited in direct proximity to the site, and elsewhere along the waterfront. Although Pier 2 was not present at the time the FIRM was produced, it would likely have been mapped in the A2 zone, in the same fashion as the other pier structures. It is also our opinion that the V2 zone is applicable seaward of the A2 zone. The design of the pier expansion and the associated buildings within the A2 and V2 zones will be completed in accordance with local building codes, the 3rd Edition of FEMA's Coastal Construction Manual, and applicable FEMA technical bulletins.

As previously stated, the existing Pier 2 is constructed 1.77 feet above the A2 zone flood elevation. Establishing the base flood elevation for the existing pier, pier expansion, and building at the A2 zone 10-feet NGVD (or 14.57 MLLW) enables the design team to proceed with the pier expansion at the existing elevation, in compliance with City Code. It is worth noting that by interpreting the site to be within the V2 zone and establishing a base flood elevation from that (as interpreted by the Zoning Administrator), would require the pier expansion and Terminal Building to be 3.23-feet higher than the existing pier; this would adversely affect the flexibility, function, pedestrian and vehicle circulation, and visual character that we designed into the project.

We request that you support our interpretation of the Pier 2 Improvements being within the A2 zone, and that you work with City staff to advance our recommendations so that we may continue our design work on this important project for the City of Portland. Thank you for your consideration.

BSS/PJP/bss 203438.01

Attachments

Sama vs logre

cc: Jeff Monroe, Dept. of Ports and Transportation Larry Mead, Asst. City Manager Paul Pottle, Maine Department of Transportation

lengentaria -

Executive Department



Larry S. Mead Assistant City Manager

CITY OF PORTLAND

December 30, 2003

Barry Sheff Project Manager Woodard and Curran 41 Hutchins Drive Portland, ME 04102

Dear Barry:

I am writing with respect to the City's intentions relative to the proposed extension of Hancock Street as part of the Ocean Gateway project. The proposed extension will create a street connecting Commercial Street (a new extended portion) with Fore Street. This proposal is consistent with the Eastern Waterfront Master Plan that guides City policy in this area.

The City currently owns all of the land on which Hancock Street extension will be developed with the exception of one small area at the northerly terminus of the proposed street. The City will possess Right and Interest in all of the property needed for the extension of Hancock Street prior to the commencement of construction. The City has begun negotiations with the current owner to acquire the one small privately owned section. Should negotiations falter the City will take the property by eminent domain.

Please contact me if you require any further information.

Sincerely,

Larry S. Mead

Assistant City Manager

Cc: Joseph E. Gray, City Manager Lee Urban, Director of Planning and Development

Jeffrey Monroe, Director of Waterfront and Transportation

Haley & Aldrich, Inc. 75 Washington Avenue Suite 203 Portland, ME-04101-2617

Tel: 207.482.4 600 Fax: 207.775.7665 HaleyAldrich.com

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MEMORANDUM

FILE COPY

23 January 2006 File No. 26354-012

TO: Woodard & Curran, Inc. David Senus, P.E.

FROM: Haley & Aldrich, Inc. Wayne Chadbourne, P.E., James Weaver, P.E.

SUBJECT: Supplemental Geotechnical Recommendations Relocated Receiving Station Ocean Gateway Project

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Dayton Ohio

Detroit *Michigan*

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Los Angeles Californía

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Providence *Rhode Island*

Rochester New York

San Diego *California*

Santa Barbara California

Tueson Arizona

Washington District of Columbia This memorandum presents supplemental geotechnical recommendations for the proposed Receiving Station. This work was undertaken at your request, in accordance with our proposal dated 7 November 2005.

Use of 24 in. dia. Piles

Based on conversations with you, it is our understanding that Reed & Reed has a surplus of 24 in. pipe piles on site and is proposing to use them to support the portion of the Receiving Station in the former BIW Shorezone Containment Area (SCA). To adequately support the structural design loads provided by BEA International (35 kips axial compression and 10 kips uplift), 24 in. dia. piles should be driven open ended to a minimum depth of 60 ft below existing ground surface. Use of a drive shoe is not required or recommended. We anticipate pile settlement on the order of ¼ in. or less.

Use of 16 in. dia. Piles

If the 24 in dia. pipe is not used for foundation support we still believe that a 16 in dia. pile would also be adequate for the column footings located in the SCA. In accordance with our memorandum dated 8 December 2005, 16 in. dia. pile used to support the Receiving Station should be driven open ended to a minimum depth of 70 ft below existing ground surface. Again, use of a drive shoe is not required or recommended. We anticipate pile settlement on the order of ¼ in. or less.

Exterior Slab on Grade

The design includes construction of a 4-in. thick, earth-supported concrete slab for the Receiving Station. The majority of the slab will be within the limits of the enclosed (heated) portion of the building, but a portion of the slab will be located beneath an open-air canopy

Woodard & Curran, Inc. 23 January 2006 Page 2

structure on the east and southeast sides of the building. Some of the proposed slab will be located within the limits of the SCA. The existing fill soils in this area are considered to be moderately frost-susceptible.

As previously recommended, the floor slabs should be designed as earth-supported slabs-ongrade bearing on a minimum of 12 in. of compacted structural fill. Structural fill should meet the requirements of MDOT Section 703.06, b Aggregates for Subbase, Type D. Structural fill should be placed in maximum 8-in. thick lifts with each lift compacted to a minimum of 95 percent of maximum dry unit weight as determined by ASTM D1557.

The exposed fill subgrade beneath the slab area should be inspected for the presence of wood, topsoil, organics or any other unsuitable material. If present, the unsuitable material should be removed and replaced with crushed stone/structural fill. Based on discussions with you, it is our understanding that a geotextile separation "marker" is present at depth within the SCA. Excavation below the existing geotextile marker should not be undertaken unless conditions of the VRAP are met.

Please note that the portion of the cast-in-place concrete slabs located in the unheated area beneath the canopy structure will be susceptible to localized differential movement from frost action. It is possible that some cracking and distress of the cast-in-place concrete will occur. Measures to mitigate possible frost action effects would include: 1) full-depth or partial-depth removal of underlying fill soils (4 to 4.5 feet for full-depth removal) and replacement with clean granular fill (not likely practicable), or 2) use of pavers that can accommodate movement without cracking. Placement of a stabilization/reinforcement geotextile fabric over soil subgrade soils and beneath the structural fill may help to mitigate some of the differential movement.

We trust these comments and recommendations are suitable for your present needs. Please do not hesitate to contact us if you have any questions abut this memorandum.

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November 2003 memorandum. There will be foundations that will span across the top of the existing seawall (foundations at building lines 9-D), and there will be foundations located in the water between Pier 2 and the western edge of the SCA area (foundations along building line 9 from line A to C).

According to Shirley Xue, P.E. of BEA International, columns at building lines 9-D through 9-H will support the roof structure. Design column loads at the foundation level are 35 kips (20 kip dead and 15 kip live) axial, 10 kip uplift and a maximum of 25 kip horizontal.

We did not conduct any specific subsurface explorations within the SCA area relative to the proposed building relocation. However, we did accumulate readily available information from explorations conducted in the general vicinity. Based on our review of the available information the following subsurface profile, with relevant engineering soil properties, has been assumed for this evaluation (reference is depth below current ground surface):

0 to 20 feet - SCA fill material - silt, fine sand, clay with organic matter, rock fragments and miscellaneous debris.
20 to 30 feet - Harbor bottom sediments - loose silt, fine sand and clay with organic matter.
30 to 60 feet - Marine silty clay with layers and lenses of silt and fine sand. Undrained shear strength = 500 pounds per square foot (psf).
60 to 90 feet - Marine silty clay with layers and lenses of silt and fine sand. Undrained shear strength = 700 psf.
90 to 110 feet - Marine fine sand. Total unit weight = 125 pcf and internal angle of friction = 32 degrees.
110 to 130 feet - Glacial Till. Total unit weight = 135 pcf and internal angle of friction = 35 degrees.
130 feet below ground suface - Bedrock.

It is our opinion that the top 30 feet of soil in the profile (SCA fill and harbor bottom sediments) should not be considered suitable for building foundation support. The underlying marine clay and sand, glacial till and bedrock are considered suitable for foundation support.

It is recommended that the building columns located within the SCA area be supported on pile foundations bearing in the naturally deposited, inorganic marine and glacial till soils. Given the relatively light design axial loads (35 kips), it is likely that the piles will be designed as friction piles. Given the limitations on excavation within the SCA area (VRAP condition) and the fact that other structures associated with the Ocean Gateway project will be supported on large-diameter steel pipe piles, we considered the possibility of using a single large-diameter pipe pile at each column location. The pile to column connection could consist of a bearing plate welded to the top of the pipe pile, or secured to the pile with reinforcing embedded in pile concrete fill. We evaluated a 16 inch diameter steel pipe pile with a 0.375 inch wall thickness, driven open ended to support the design column load.

The pile should be driven into the underlying inorganic marine, and possibly glacial till, deposits to develop a minimum ultimate geotechnical capacity of 78.8 kips which provides for a minimum geotechnical factor of safety of 2.25 on the design axial loads. Calculations assuming skin friction on the outside of the pile and no end bearing capacity (pile driven



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open-ended) indicate that a pile with a total length of 70 feet (ignore top 30 feet of SCA fill and harbor bottom deposits) will be capable of safely supporting the design column loads. Anticipated pile settlement is on the order of ¼ inch.

Lateral pile load evaluations were conducted to assess the possible lateral pile head movements under the maximum design horizontal load of 25 kips. We used the LPILE Plus-Version4 computer program for the evaluations. We looked at both the free-head and the fixed-head conditions to try and bracket the range of predicted lateral pile head movements. For the fixed-head condition the predicted pile head movement was on the order of 0.5 in. and for the free-head condition the predicted movement was on the order of 2.1 in. The results of the lateral pile load assessment are presented in graphical form in the attached 6 sheets.

There are other foundation options for support of the columns located within the SCA area. A more conventional foundation would consist of a pile cap supported on a minimum of 2 or 3 piles. The bottom of the pile cap would be located at a depth of approximately 4.5 feet below ground surface, requiring excavation of SCA material and meeting the requirements of the VRAP. Piles supporting the pile cap would have a minimum ultimate geotechnical capacity (design capacity times 2.25 geotechnical factor of safety) of from about 27 kips (3-pile group) to 40 kips (2-pile group). The top 30 feet of soil should still be ignored. Treated timber piles would be suitable for this application. Assuming a nominal 12 inch diameter pile within the bearing zone, the depth of penetration into inorganic marine deposits would be on the order of 21 feet for the 27-kip capacity pile and 32 feet for the 40-kip capacity pile. Therefore, the total pile length for timber piles would be approximately 51 feet for the 27-kip capacity pile (3-pile group) and 62 feet for the 40-kip capacity pile (2-pile group).

It is noted that there could be obstructions (rock fragments, timber pile debris, etc.) within the SCA fill that could affect pile installation. The obstructions, if encountered, would likely be within the top 15 to 20 feet of the soil profile. The contractor might have to use a spud to move small obstructions or excavate and remove larger obstructions.

As noted, foundations located to the north of the seawall can be designed in accordance with the recommendations contained in our 17 November 2003 memorandum. It is possible that earth-supported foundations could experience settlement on the order of $\frac{3}{4}$ to 1 inch of settlement. The pile foundations described herein are expected to experience settlement on the order of $\frac{3}{4}$ inch, so the structure would need to be designed to accommodate differential settlements on the order of $\frac{1}{2}$ to $\frac{3}{4}$ inch between the pile-supported and the earth-supported foundations.

It is also noted that there will be some foundations that will span over the existing seawall. It is noted the northern side of the seawall will likely have a stepped configuration used to create a gravity structure. New foundations located in the immediate vicinity of the land-side of the seawall could be impacted by the presence of the stepped structure. A geophysical investigation was undertaken by Hager GeoScience, Inc. (Hager) in 2004 for Woodard & Curran to assist in locating the Portland Water District force main and to provide information on the seawall in the vicinity of the RoRo structure. A report dated March 2004 prepared by Hager indicated at the RoRo location the back side of the seawall could extend 10 to 15 feet from the front face of the wall. If the wall configuration at the Receiving Station is similar,



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The facility design includes an earth-supported concrete slab within the building limits. Some of the slab will be inside the building and some will be outside but under the roof. The existing fill soils are considered to be moderately frost-susceptible. Recommendations for the floor slab contained in our 17 November memorandum are still considered appropriate. However, the concrete slabs located under the roof in unheated areas will be susceptible to localized differential movement from frost action. It is possible that some cracking and distress of the cast-in-place concrete will occur. Articulated paving blocks could better accommodate the differential movement related to possible frost action or ground surface settlement.

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Attachments: L-Pile Summary Sheets (6)

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Woodard & Curran, Inc. 23 January 2006 Page 2

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Haley & Aldrich, Inc. 75 Washington Avenue Suite 203 Portland, ME-04101-2617

Tel: 207.482.4 600 Fax: 207.773.7660 Haley Aldrich.com

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ALDRICH	

MEMORANDUM

FILE COPY

23 January 2006 File No. 26354-012

TO:	Woodard & Curran, Inc. David Senus, P.E.
FROM:	Haley & Aldrich, Inc. Wayne Chadbourne, P.E., James Weaver, P.E.
SUBJECT	Supplemental Geotechnical Recommendations

SUBJECT: Supplemental Geotechnical Recommendations Relocated Receiving Station Ocean Gateway Project

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Santa Barbara California

Kansas

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It is noted that there could be obstructions (rock fragments, timber pile debris, etc.) within the SCA fill that could affect pile installation. The obstructions, if encountered, would likely be within the top 15 to 20 feet of the soil profile. The contractor might have to use a spud to move small obstructions or excavate and remove larger obstructions.

As noted, foundations located to the north of the seawall can be designed in accordance with the recommendations contained in our 17 November 2003 memorandum. It is possible that earth-supported foundations could experience settlement on the order of ¾ to 1 inch of settlement. The pile foundations described herein are expected to experience settlement on the order of ¼ inch, so the structure would need to be designed to accommodate differential settlements on the order of ½ to ¾ inch between the pile-supported and the earth-supported foundations.

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It is our opinion that the top 30 feet of soil in the profile (SCA fill and harbor bottom sediments) should not be considered suitable for building foundation support. The underlying marine clay and sand, glacial till and bedrock are considered suitable for foundation support.

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Attachments:

L-Pile Summary Sheets (6)

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Department of Transportation Port of Portland Portland Fish Pier Authority



Capt. Jeffrey W. Monroe Director

Benjamin Snow Manager, Marine Operations and Administration

CITY OF PORTLAND

December 24, 2003

Mr. Barry Sheff Woodard & Curran 41 Hutchins Drive Portland, Maine 04102

Re: Stormwater Management at Ocean Gateway

Dear Barry,

In response to your request, PDOT is pleased to provide its commitment to inspect, clean and maintain the casco traps, catch basins and stormwater treatment units (in accordance with manufacturers recommendations) to be installed on the Ocean Gateway site as part of the project. The commitment will cover all units, outside new or existing street ROW's, including surface parking lots and the intermodal loop.

We understand that the Portland Public Works department is committing to stormwater systems maintenance in the new public ROW's planned for the extensions of Hancock Street and the extension of Commercial Street.

Sinde leffrey Monroe, MM ápt Director

Cc: David Cohan, PDOT Asset Manager

C:/mydocuments/stormwater12242003.doc



41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, New York, New York, Florida *Operational offices throughout the U.S.*

TRANSMITTAL

ΤΟ [.]	Mike Nugent	Manager			Sentember 26, 2005	
10.	Inspection Services Program			PROJECT NAME	Ocean Gateway	
	Cit II II Prove 215					
	Dentinal MD	04102		FROJECT NUMBER.	DEPT. OF BUILDING INSPECTION	
RE:	Portland, ME 04103 Certificate of Design and Accessibility Certificat			e Forms	SEP 2 7 2005	
WE ARE SEN	IDING:				TIEOEIVED	
Quotation	า	🔲 Draw	ings	Bid Package	Floppy Disk / CD	
	Order		dule	Installation Package	L Sample	
	Jider		lais		it Forms	
Qty	Doc. No.	Rev. No.	Dated		Description	
1	9/12/2005		Accessibility Cert. a Architect (4 total – 2	nd Cert. of Design forms from bldgs)		
1			9/16/2005	Certificate of Design	– Pier 2, from Marine Engineer	
	For Your:		のからのでのない	Sent By:		
	USE					
		L			RAL EXPRESS	
		COMMENTS				
		TION			IER	
					R – Dropped off by W&C at City Hall	
Mike:						
Enclosed are the 1999 BOCA Certificate of Design forms and the Accessibility Certificate for the Ocean Gateway project. We are putting together the Statement of Special Inspections and hope to get that to you very soon. Please contact me if you have any questions, (207) 774-2112.						
Thanks, Dave Senus	$\mathcal{D}\mathcal{C}$					
CC: Dustin Littlefield, Reed & Reed						
				BY: DAS		



41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, New York, New York, Florida *Operational offices throughout the U.S.*

TRANSMITTAL

TO:	Mike Nugent,	Manager		DATE: October 13, 2005
	Inspection Services Program			PROJECT NAME: Ocean Gateway
	City Hall – Room 315			A SAME OF BUILDING INSPECTATION
	Portland, ME 04103			
RE:	Special Inspection Plan – Ocean Gateway			OCT 1 3 2005 RECEIVED
WE ARE SEM	NDING:			
Quotatio	n	🗌 Drawi	ngs	Bid Package Eloppy Disk / CD
) Ordor		lule	Installation Package Sample Sample
	Order		als	
Qty	Doc. No.	Rev. No.	Dated	Description
1			10/11/2005	Special Inspection Plan for Ocean Gateway
	For Your:	a later and		Sent By:
	USE			
	APPROVA	AL.		FEDERAL EXPRESS
	REVIEW/0	COMMENTS		
		TION		
				OTHER – Dropped off by W&C at City Hall
Mike:	<u> </u>			
Enclosed is the Special Inspection Plan drafted by the design team and signed by the Special Inspections Coordinator, the City of Portland (Owner) and the two design firms (Architect's Structural Engineer and Marine Structural Engineer) that developed the inspection plan and the design drawings. Please let me know if you have any questions.				
Thanks, Dave Senus				
CC: Dustin L	ittlefield, Reed	& Reed		
				BY: DAS

SPECIAL INSPECTION PLAN Ocean Gateway, Phase I Portland, ME

Part 1 GUIDELINE

Abbreviations:

RDP – Registered Design Professional
 SIC – Special Inspections Coordinator
 SI – Special Inspector
 TL – Testing Laboratory
 BO – Building Official

The Registered Design Professional (**RDP**) that developed, stamped and signed the Official (permitted) Documents has prepared this plan, outlining the required testing and inspection program.

The Special Inspection Coordinator (**SIC**) identified in this plan shall keep records of all inspection and shall furnish Field Reports to the Building Official (**BO**) and the **RDP**.

The Special Inspector (SI) shall observe that the portions of the work identified in this plan are performed in substantial compliance with the Official (permitted) Documents and any subsequent written revisions or clarifications issued by the **RDP**. The Official Documents comprise the plans approved by the **BO**, issued amendments, specifications with associated amendments and the approved Special Inspection Plan.

The **SI** shall not make any design decisions, direct the Contractor's work, be responsible for construction means and methods, be responsible for job site safety nor for enforcing or monitoring compliance with any OSHA or Labor Regulation whatsoever.

The **SI** shall hold a current and valid certificate of authorization, or license which allows the **SI** to perform this kind of work, and must posses at least 10 years of verifiable experience and be knowledgeable of the structural system being used in this project.

1.1 DUTIES

The **SIC** shall maintain a record (Field Report) of the progress, working conditions, comments and observations given to the Contractor and any deviation from the Approved Documents. The **SIC** and **SI** must be thoroughly familiar with Project Specifications and the applicable Building Codes and are also responsible for the exercise of good judgment.

The **SIC** must bring to the attention of the **RDP** any deficiency, deviation from Official Documents or suspected deficiencies or deviations. In addition, the **SIC** must secure

Ocean Gateway Phase I Page 2 October 11, 2005 clarifications to the drawings and responses to field generated problems as the need arises.

The **SIC** is to prepare a Field Report after each inspection leaving always a copy with the Contractor at the job site. The **SIC** must also maintain in a readily available location, preferably near the Official Documents, a Log of Inspections, summarizing the areas inspected and whether approved or not, which will be turned submitted the **RDP** and **BO** along with the Final Certificate of Compliance.

Each Field Report should clearly indicate all areas inspected and whether approved or not. If approval is denied, then the deficiencies and an indication on whether a reinspection is required should be clearly noted. In addition, applicable Testing Laboratory (**TL**) Reports (compaction, pile monitoring, mill reports, etc.) should be made available to the **SIC** as soon as possible, for inclusion with the Field Report. The **TL** and **SI** shall duly make the **SIC** immediately aware of any changes, modifications done in the field, deviations from the Official Documents, poor workmanship (exposed reinforcement, excessive slumps, columns out of plumb, honeycombs, eccentricities, cracks, etc.) and areas poured or covered up without inspection.

Each Field Report should also indicate the date, time, weather conditions and the name and signature of the **SI** and/or **TL**.

The **SIC** must, as soon as possible, bring to the attention of the **RDP** changes generated in the field, deviations from the Approved Documents and areas of poor or faulty workmanship which require resolution through directives issued by the **RDP**. Any observed changes, deviations or areas of poor or faulty workmanship shall be recorded in the Field Report. The resolution to these issues must also be recorded in the Field Report.

1.2 RESPONSIBILITY

The presence of an **SI** or **TL** on site does not relieve the **BO** or the **RDP** of their respective responsibilities; additionally, the Contractor's contractual or statutory obligations are not in any way relieved or forgone. The Contractor has the sole responsibility for any deviations from the approved Official Documents, for quality control, for job site safety and compliance with OSHA and Labor Laws.

It is the responsibility of the **SI** to observe and ensure the placement and installation of structural components is in conformance with the Official Documents and to work with the **SIC** in preparing a Field Report as described above.

It is the responsibility of the **SIC** to ensure that inspections and testing occur in conformance with this plan, to generate Field Reports as described above, to create a Log of Inspections as described above, to bring to the attention of the **RDP** any

Ocean Gateway Phase I Page 3 October 11, 2005 observed discrepancies or deviations from the Official Documents and to issue a Final Certificate of Compliance at the end of the structural work to the **BO** and **RDP**.

The **SI**, **TL** and **SIC** are to provide services only with regard to the components identified within this Inspection Plan.

1.3 SUBMITTALS

Once a week, or as required by the **BO**, the **SI** shall submit copies of the Field Reports to the **BO**, the **RDP**, and any other party designated by the Architect to receive them. The reports are to be submitted with a signed and sealed cover letter which identifies the period and the reports being submitted.

1.4 FINAL CERTIFICATION

Upon completion of the job, a signed and sealed Certificate of Compliance for each structure requiring inspection shall be issued by the **SIC** to the **BO** with copies to the **RDP**, the Owner, and any other designated person. The Final Certificates of Compliance shall state substantially: "To the best of my knowledge, ability and belief, the above referenced structure's load bearing components have been constructed in compliance with the Approved Official Documents and any clarifications or corrections issued by the Engineer of Record. In addition, the shoring and re-shoring of this structure conforms with the approved shoring and re-shoring plans submitted to the Building Official and made available to us."

1.5 CONCLUSION

These Guidelines together with the Inspection Plan that follows are intended to be an outline of the minimum requirements for the performance of the **SIC**'s work. Additional requirements may be deemed necessary during the course of construction due to the progress of and the manner in which the job is conducted by the General Contractor.

The Owner must make available to the **SIC** all pertinent documents relating to the construction of this project - Approved Shop Drawings, Concrete Cylinder and Soil Compaction Test results, Pile Driving Logs, Stressing Records, Mill Records, etc.

Part 2 INSPECTION PLAN

2.1 FOUNDATIONS

2.1.1 STEEL PILE FOUNDATIONS

TL: Confirm pipe steel grade; verify qualifications of welding personnel; verify adequacy of welding electrodes used; verify weld procedure specifications; verify and certify

Ocean Gateway Phase I Page 4 October 11, 2005 adequacy of pipe splice fit-up and welds; concrete-fill mix verification.

SI: Verify pile size, length, and pile tip; inspect pile coating for defects and damage; confirm pile straightness; inspect and log pile driving operations recording pile driving resistance, tip elevation; verify compliance with driving criteria; verify pile location; inspect piles for damage from driving and plumbness; inspect and verify placement of concrete-fill.

2.1.2 CONCRETE SPREAD FOOTINGS

TL: Verify grade of reinforcing steel; concrete mix verification; slump and concrete cylinder tests; bottom of excavation compaction monitoring and testing.

SI: Verify reinforcing steel placement, grade, size, quantity, cover, splices; verify quantity and size of column dowels. Secure column redesign, if required, from **RDP**.

2.2 SLAB ON GRADE

TL: Verify grade of reinforcing steel; concrete mix verification; slump and concrete cylinder tests; compaction monitoring and testing.

SI: Verify reinforcing steel placement, grade, size, quantity, cover, splices.

2.3 COLUMNS

TL: Verify grade of reinforcing steel; concrete mix verification; slump and concrete cylinder tests.

SI: Verify reinforcing steel placement, grade, size, quantity, cover, splices. Monitoring and approving all data.

2.4 REINFORCED MASONRY

TL: Verify masonry unit compressive strength; confirm grout mix; verify through Prism Tests.

SI: Verifying reinforcing steel placement, grade, size, quantity, cover, splices; verify full cell grouting; visually check wall alignment and plumbness.

2.5 CONCRETE SLABS

TL: Verify grade of reinforcing steel; concrete mix verification; slump and concrete cylinder tests.

Ocean Gateway Phase I Page 5 October 11, 2005 SI: Verify reinforcing steel placement, grade, size, quantity, cover, splices; verify size and location of supporting chairs.

2.6 STRUCTURAL STEEL

TL: Verify and certify adequacy of welds and bolt torque (33% at random minimum) in connections; verify qualifications of welding personnel; verify adequacy of welding electrodes used; verify bolt type; confirm steel grade.

SI: Verify adequacy of installation; verify end anchorage, inserts (if any) and member to member connections; verify required bridging; look for bent, warped, or damaged members and secure required corrections from **RDP**; secure from **RDP** verification of any special or unusual conditions. Use digital photography as part of formal record-keeping and send **RDP** photos of end anchorage, inserts and member-to-member connections.

2.7 PRESTRESSED CONCRETE

SI: Verify top surface finish of panels; inspect panels for damage; verify location of panels; verify grade, placement, and cover of overlay reinforcement; secure from **RDP** verification of any special or unusual conditions; verify shear key grout; verify high-pressure cleaning of shear keys; confirm placement of shear key grout. Verify the following from the precast supplier: Concrete mix verification; verify air content, unit weight, slump, w/c ratio, and concrete cylinder tests; verify reinforcing steel placement, grade size, quantity, cover, and splices; verify stressing and protection of prestressed tendons.

2.8 LIGHT GAUGE METAL FRAMING

TL: Verify member gauge.

SI: Verify adequacy of installation; verify end anchorage, inserts (if any) and member to member connections; verify required bridging: look for bent, warped or damaged members and secure required corrections from **RDP**; secure from **RDP** verification of any special or unusual conditions.

2.9 SHORING AND RESHORING

TL: Verify lumber stress grade.

SI: Relay formwork designer's signed and sealed shoring drawings and calculations to the **BO**, **RDP** by way of the **SIC**; verify adequacy of field installation and certify same prior to any slab pour. Shoring drawings to indicate all required vertical members, spacing, bracing; all horizontal members, spacing, bracing; shoring and re-shoring

Ocean Gateway Phase I Page 6 October 11, 2005 sequence and requirements. Verify that the Formwork Designer has certified the shoring and reshoring prior to any slab pour.

2.10 SEISMIC JOINT

TL: Verify conformance with specification

SI: Verify adequacy of installation

2.11 GENERAL

SI: Verify column plumbness; finished concrete surfaces; check for honeycombing, cracks, poor workmanship; report any problems or conflicts immediately and secure from RDP any required corrections or re-designs.

2.12 RO-RO RAMP MECHANICAL

SI: Observe Testing as described in Section 14900 RO-RO Ramp, Section 6.0 Testing.

Part 3	APPROVALS	

Title	Individual / Firm	Address, Phone #
Special Inspection Coordinator	Ken Page Maine Department of Transportation	Job Trailer at Ocean Gateway 36 Commercial St, Portland (207) 772-2579
Special Inspector	Ken Page Maine Department of Transportation	Job Trailer at Ocean Gateway 36 Commercial St, Portland (207) 772-2579
Special Inspector	Bruce Brown Maine Department of Transportation	Job Trailer at Ocean Gateway 36 Commercial St, Portland ((207) 772-2579
Registered Design Professional (Architect's Structural Engineer)	Shirley Xue, PE BEA International	4111 Le Jeune Road Coral Gables, FL 33146-1311 Phone: (305) 461-2053
Registered Design Professional (Marine Engineer)	David Pierce, PE PN&D Inc.	811 First Avenue, Suite 570 Seattle, WA 98104 Phone: (206) 624-1387
Testing Laboratory	S.W. Cole Engineering	286 Portland Road Gray, ME 04039-9586 Phone: (207) 657-2866
Testing Laboratory	Maine Department of Transportation	16 State House Station Augusta, ME 04333
Building Official	Mike Nugent City of Portland	City Hall, 3rd Floor 389 Congress Street Portland, ME 04101 Phone: 207-874-8700

Ocean Gateway Phase 1 Page 7 October 11, 2005

Owner's Authorization (City of Portland) Síon/atu Special Inspection Coordinator

lmel Signature

Name (Printed)

Dáte

Date

<u>BESIDENT JUSPECTOR</u> M. D.O.T. Title

antinininininini

Registered Design Professional (Terminal Bldg/Receiving Stn./Walkway/VIS)

W.S. Jul Signature

W. SHIRLEY XUE Name (Printed)

<u>10-11-05</u> Date BEA International Company 10/12/05 Date

Registered Design Professional (Pier A/Ro-Ro Ramp)

Signature

DAVID M PIERCE

Name (Printed)

Building Official

Signature

Date

Name (Printed)



CITY OF PORTLAND MAINE 389 Congress St., Rm 315 Portland, ME 04101 Tel. – 207-874-8704 Fax – 207-874-8716

Inspector of Buildings City of Portland, Maine Planning & Urban Development Division of Housing & Community Services

FROM DESIGNER: BEA INTERNATIONS

AFE

OF

TO:

9/12/05 DATE: STATION TEWAY RECEIVING Job Name: OCE PHASE T MAINE Address of Construction; THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below: Use Group Classification(s) GROUP A3 - TERMINAL 1999 Building Code and Year BOCA 3 R 50 Type of Construction Bidg. Height Bidg. Sc. Footag Seismic Zone Group Class 3 IS (Roof Roof Snow Load Per Sq. Ft. PS Dead Load Per Sq. Ft 85 PSP Basic Wind Speed (mph) Effective Velocity Pressure Per Sq. Ft. 40 Floor Live Lond Per Sq. Ft. $\boldsymbol{\times}$ Structure has full sprinkler system? Yes_ Alarm System? Yes_ No No Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes_No_X If mixed use, what subsection of 313 is being considered List Occupant loading for each room or space, designed into this Project. C. W. S (Designers Stamp & Signature) RUND PSH 6/07/1K 8 -unununu RAMOS



CITY OF PORTLAND MAINE 389 Congress St., Rm 315 Portland, ME 04101 Tel. - 207-874-8704 Fax - 207-874-8716

Inspector of Buildings City of Portland, Maine Planning & Urban Development

Division of	Housing & Community Services	• • •
FROM DESIGNER:	BEA INTERNATIONAL	
		•
DATE:9	12/05	
Job Name: OCEAN GATE	WAY PHASE I - TERMINAL	BUILDING
Address of Construction: 40	COMMERCIAL STREET PORTLA	ND, MAINE.
THE BOCA NATIO	ONAL BUILDING CODE/1999 Fourteen t was designed according to the building code criteria list	thEDITION ed below: 3 - TER-MINTA/ 5.
Building Code and Year Type of Construction	Bidg, Height 49'-5" Bidg, Sq. Foo	tage 16280 59.fl
Seismic ZoneC	Group Class	
Roof Snow Load Per Sq. Ft. 31	Dead Load Per Sq. Ft. 105 (floor) 15 (Roof)
Basic Wind Speed (mph)	Effective Velocity Pressure Per Sq. Fi	40 prf.
Floor Live Load Per Sq. Ft	100 psf 200 psf.	
Structure has full sprinkler system? Sprinkler & Alarm systems must be in Portland Fire Department.	Yes No Alarm System? Yes nstalled according to BOCA and NFPA Standards with a	No pproval from the
Is structure being considered unlimite	d area building: Yes_No_X	· · ·
The share a dist a descetar - 6310 f	N/A.	• • • •

List Occupant loading for each room or space, designed into this Project.



TO:

(Designers Stamp & Signature)

23/07 q

OODARD & CURRAN Engineering - Science - Operations

41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, New York, New York, Florida Operational offices throughout the U.S.

TRANSMITTAL

TO:	Mike Nugent, Manager Inspection Services Program City Hall – Room 315 Portland, ME 04103 Revised Plans as per VAAP's 20.1, 22, 23, 24			DATE: PROJECT NAME: PROJECT NUMBER:	October 20, 2005 Ocean Gateway 203438.12
WE ARE SENDING: Quotation Drawings Brochure Schedule Change Order Manuals			ings dule ials	 Bid Package Installation Package Other (specify 	Floppy Disk / CD Sample
Qty	Doc. No.	Rev. No.	Dated		Description
42			10/17/2005	Revised Design Plans	s – Ocean Gateway
	For Your:			Sent By:	
		AL			AL EXPRESS
		COMMENTS			
		TION			R
					 Dropped off by W&C at City Hall
Mike: Enclosed are some revised design plans for Ocean Gateway: VAAP 20.1 – Relocation of Receiving Station (and associated Civil Sheets) VAAP 22 – Redesign of framing of Terminal Bldg to Steel Framing VAAP 23 – Redesign of framing of Passenger Walkway to Wood VAAP 24 – Redesign of VIS Roof Columns to Steel as opposed to concrete Thanks, Dave Senus					
				BY: DAS	



CITY OF PORTLAND ACCESSIBILITY CERTIFICATE

Designer: BEA INTERNATIONAL
Address of Project 40 COMMERCIAL STREET, PORTLAND, MAINE
Nature of Project OCEAN GATEWAY PHASE I
TERMINAL BLOG., RECEIVING STATION, VEHICLE INSPECTION.
Date 9/12/05

The technical submissions covering the proposed construction work as described above have been have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.



Signature
Title President
Firm BEA INTERNATIONAL
Address 4111 LE JEUNE ROAD
CORAL GABUEL, FL 33146
Telephone 305 461 2053





PSH 6/20/2k

CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Rm 315 Portland, ME 04101

TO:

Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service

FROM:

INTERNATIONS

RE:

Certificate of Design

BEA

DATE:

These plans and/or specifications covering construction work on:

PORTLAND MAINE COMMERCIAL Ø ST

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.

amanning Signature 20 STOAL Title RUNO RAMOS INTERNATIONAL 26 Firm BEA Address 4111 LE JEUNE ROAD OF MIAHIFL, 33146 As per Maine State Law:

\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Rm 315 Portland, ME 04101

TO: '

Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service

FROM:

PND ENGINEERS

RE:

DATE:

These plans and/or specifications covering construction work on:

MARINE / WATER COMPONENTS

Certificate of Design

9/16/05

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local emendments



\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

• PSH 6/20/2k



CITY	OF PORTLAND MAI	INE
	389 Congress St., Rm 315	· · ·
	Portland, ME 04101	
	Tel 207-874-8704	
	Fax – 207-874-8716	•
		•

Inspector of Buildings City of Portland, Maine Planning & Urban Development Division of Housing & Community Services

FROM DESIGNER: PND ENGINEERS

TO:

DATE: <u>9/14</u> 05 Job Nume: <u>OCEAN GATEMAT PHASE 1</u> Address of Construction: <u>40 Commercutal Street</u> Portland, ME THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION Construction project was designed according to the building code criteria listed below: Building Code and Year <u>BCA 1979</u> Use Group Classification(s) <u>A-3</u> (PASSEV 66R TERAINAL) Type of Construction <u>PIER</u> Bidg. Height <u>NA</u> Bidg. Sq. Footage <u>NA</u> Seismic Zone <u>PERFORMANCE (ATEGORY 'C'</u> Group Class Easter Wind Speed (mph) <u>85 mph</u> Effective Velocity Pressure Per Sq. Ft. <u>26 psf</u> Basic Wind Speed (mph) <u>85 mph</u> Effective Velocity Pressure Per Sq. Ft. <u>26 psf</u> Floor Live Load Per Sq. Ft. <u>NA</u> <u>Deed Load Per Sq. Ft. <u>26 psf</u> Floor Live Load Per Sq. Ft. <u>SOD psf</u> or <u>HS-25 TRVCK Lo ADINUL AT. LOADINH</u> ASEA Structure has full sprinkler system? Yes <u>No X</u> Alarm System? Yes <u>No. X</u> Sprinkler & Aliarm systems must be installed accoording to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes <u>No X</u> If mixed use, what subsection of 313 is being considered <u>NA</u> List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature) <u>X</u></u>	
Job Name: OCEAN GATENIAT PHASE 1 Address of Construction: 40 ComMERCIA STREET PORTLAND, ME THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below: Building Code and Year <u>BCA 1979</u> Use Group Classification(s) <u>A-3</u> (PASSENGER TERAINAL) Type of Construction <u>PIER</u> Bidg Height <u>NA</u> Bidg Sq. Pootage <u>NA</u> Seismic Zone <u>PERFORAAULE (ATEGORY 'C' Group Class</u> Roof Snow Load Per Sq. FL. <u>NA</u> <u>Deed Load Per Sq. FL</u> <u>PIER. DECK ~ 330 psf</u> Basic Wind Speed (mph) <u>85 mph</u> Effective Velocity Pressure Per Sq. FL <u>Z6 psf</u> Floor Live Load Per Sq. FL <u>250 psf</u> or <u>HS - 25 TRUCK Lo ADINUL AT. LOADINUL AREA</u> Structure has full sprinkler system? Yes <u>No</u> <u>X</u> Sprinkler & Alarm Systems must be installed according to BOCA and NFPA Standards with approval from the Partiand Fire Department. Is structure being considered unlimited area building: Yes_No <u>X</u> If mixed use, what subsection of 313 Is being considered <u>NA</u> List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature) X	DATE: 9/14/05
Address of Construction: 40 Commercus Light STREET PORTLAND, ME THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below: Building Code and Year Boc A 1979 Use Group Classification(s) A - 3 (PASSENGER TERMINAL) Type of Construction PIER Bidg. Height NA Bidg. Sq. Footage NA Seismic Zone PERFOR ANNIE (ATEGORY 'c' Group Class II Roof Snow Load Per Sq. Ft. NA Deed Load Per Sq. Ft. PIER. Deed Load Per Sq. Ft. 26 psf Basic Wind Speed (mph) 85 mph Effective Velocity Pressure Per Sq. Ft. 26 psf Floor Live Load Per Sq. Ft. 26 psf Floor Live Load Per Sq. Ft. 250 psf OR HS - 25 TRUCK Lo ADINUL AT. LOADINUL AREA Structure has full sprinkler system? Yes No X Alarm System? Yes No X Sprinkler & Alarm System? Installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes_No X If mixed use, what subsection of 313 is being considered NA Ma Ma IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	JOB NAME: OCEAN GATEWAT PHASE 1
THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below: Building Code and Year $BocA$ $/979$ Use Group Classification(s) A-3 (PASSENGER TERMINAL) Type of Construction $PIER$ Bidg. Height NA Bidg. Sq. Pootage NA Seismic Zone PERFORMANCE (ATEGORY 'C' Group Class II III Roof Snow Load Per Sq. Ft. NA Dead Load Per Sq. Ft. $PIER$ $DECK \sim 330 \rhosf$ Basic Wind Speed (mph) $B5 mph$ Effective Velocity Pressure Per Sq. Ft. $26 \rhosf$ Floor Live Load Per Sq. Ft. $250 psf$ or HS - 25 TRUCK LOADINUL AT. LOADINUL AREA Structure has full sprinkler system? YesNoX Alarm System? YesNoX Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: YesNoX If mixed use, what subsection of 313 is being considered N/A Use Occupant loading for each room or space, designed into this Project. N/A IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Address of Construction: 40 COMMERCIAL STREET PORTLAND, ME
Building Code and Year BCA 1999 Use Group Classification(s) A-3 (PASSENGER TERMINAL) Type of Construction PIER Bidg. Height NA Bidg. Sq. Footage NA Seismic Zone PERFORAULE (ATEGORY 'C' Group Class I Roof Snow Load Per Sq. Ft NA Dead Load Per Sq. Ft DECK ~ 330 psf Basic Wind Speed (mph) 85 mph Effective Velocity Pressure Per Sq. Ft 26 psf Floor Live Load Per Sq. Ft 250 psf or HS 25 TRVCK Lo ADINUL AT. LOADINUL AREA Structure has full sprinkler system? Yes No X Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes_No X If mixed use, what subsection of 313 is being considered NA NA Use Signart koading for each room or space, designed into this Project. MA	THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below:
Type of Construction PiteR Bidg. Height NA Bidg. Sq. Footage NA Seismic Zone <u>PERFOR AAULE (ATEGORY 'c'</u> Group Class I Roof Snow Load Per Sq. Ft. <u>NA</u> Dead Load Per Sq. Ft. <u>PIER. DECK ~ 330 psf</u> Basic Wind Speed (mph) <u>85 mph</u> Effective Velocity Pressure Per Sq. Ft. <u>26 psf</u> Floor Live Load Per Sq. Ft. <u>250 psf</u> or <u>HS - 25 TRVCK LoADINUL AT. LOADINUL AREA</u> Structure has full sprinkler system? Yes <u>No</u> Alarm System? Yes <u>No</u> Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes <u>No</u> If mixed use, what subsection of 313 is being considered <u>N</u> List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature)	Building Code and Year BOCA 1999 Use Group Classification(s) A-3 (PASSENGER TERMINA
Seismic Zone <u>PERFOR AAULE (ATEGORY 'C'</u> Group Class I Roof Snow Load Per Sq. Ft. <u>NA</u> <u>Dead Load Per Sq. Ft. <u>PIEF. DECK ~ 330 psf</u> Basic Wind Speed (mph) <u>85 mph</u> Effective Velocity Pressure Per Sq. Ft. <u>26 psf</u> Floor Live Load Per Sq. Ft. <u>250 psf</u> or <u>HS 25 TRVCK to ADINUL AT. LOADINUL AREA</u> Structure has full sprinkler system? Yes <u>No X</u> Alarm System? Yes <u>No. X</u> Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes_No X If mixed use, what subsection of 313 is being considered <u>NA</u> List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature) <u>DAVID</u></u>	Type of Construction <u>PIER</u> Bldg. Height <u>NA</u> Bldg. Sq. Footage <u>NA</u>
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Basic Wind Speed (mph) 85 mph Effective Velocity Pressure Per Sq. Ft. 26 psf Floor Live Load Per Sq. Ft. 250 psf or HS - 25 TRUCK Lo ADINUL AT. LOADINUL AREA Structure has full sprinkler system? Yes No X Alarm System? Yes Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland. Fire Department. Is structure being considered unlimited area building: Yes_No If mixed use, what subsection of 313 is being considered N/A List Occupant loading for each room or space, designed into this Project. DAVID (Designers Stamp & Signature) #	Roof Snow Load Per Sq. Ft. NA Deed Load Per Sq. Ft. PIER. DELK ~ 330 psf
Floor Live Load Per Sq. Ft. 250 pSf or HS 25 TRUCK LOADING AT. LOADING AREA Structure has full sprinkler system? Yes No X Alarm System? Yes No X Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes No X If mixed use, what subsection of 313 is being considered N/A List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature)	Basic Wind Speed (mph) 85 mph Effective Velocity Pressure Per Sq. Ft. 26 psf
Structure has full sprinkler system? Yes <u>No</u> <u>Alarm System? Yes</u> <u>No</u> <u>Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department. Is structure being considered unlimited area building: Yes_No <u></u> If mixed use, what subsection of 313 is being considered <u>NA</u> List Occupant loading for each room or space, designed into this Project. (Designers Stamp & Signature) <u>DAVID</u></u>	Floor Live Load Per Sq. FL 250 psf or HS-25 TRUCK LOADING AT. LOADING AREA
Is structure being considered unlimited area building: Yes_No_X	Structure has full sprinkler system? YesNoX Alarm System? YesNoX Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.
If mixed use, what subsection of 313 is being considered <u>NA</u> List Occupant loading for each room or space, designed into this Project. (Designers: Stamp & Signature)	Is structure being considered unlimited area building: Yes_No_X
List Occupant loading for each room or space, designed into this Project.	If mixed use, what subsection of 313 is being considered N/A
(Designers Stamp & Signature)	List Occupant loading for each room or space, designed into this Project.
	PSH 6/07/2K (Designers Stamp & Signature) A DAVID PSH 6/07/2K

Haley & Aldrich, Inc. 75 Washington Avenue Suite 203 Portland, ME 04101-2617

Tel: 207.482.4 600 Fax: 207.775.7666 HaleyAldrich.com

HALEY&
ALDRICH

MEMORANDUM

8 December 2005 File No. 26354-012

SUBJECT:

TO:	Woodard & Curran, Inc. David Senus, P.E.
C:	BEA International Shirley Xue, P.E.

Foundation Recommendations

Relocated Receiving Station

Ocean Gateway Project

accordance with our proposal dated 7 November 2005.

100e

This memorandum presents the results of our evaluations of foundation requirements for the

portion of the proposed Receiving Station that may be relocated into the limits of the former

The VAAP-20.1 proposes to move the Receiving Station to avoid the existing Portland Water

memorandum to Woodard & Curran. The proposed relocation results in building foundations

BIW Shorezone Containment Area (SCA) as described in the Value-Analysis Alternative

District 33 inch diameter force main located in the vicinity of building line No. 1. The

original building location was sited entirely to the north of the granite block seawall; we

provided foundation design and construction recommendations in a 17 November 2003

along Building Line No. 9 being positioned to the south of the seawall. It appears that

along 9 line from C to H will be located within the limits of the SCA.

prohibited without written permission of the Deaprtment".

foundations along building line 9 from A to C will be located over water, and foundations

The SCA was originally designed as a dredge spoil disposal area and was closed by BIW

dated 25 July 2000 indicates that "Excavation of soils beneath the geosynthetic grid are

under the Maine Department of Environmental Protection (MaineDEP) Voluntary Response

Action Program (VRAP). A condition of the MaineDEP VRAP certification of completion

Our primary effort to date has been to assess foundation requirements for the foundations that

will be relocated into the SCA area. In our opinion, foundations located to the north of the

seawall can be designed in accordance with the recommendations contained in our 17

Proposal No. 20.1 (VAAP-20.1). This work was undertaken at your request and in

FROM: Haley & Aldrich, Inc. James Weaver, P.E.

OFFICES

Boston Massachusetts

Cleveland *Ohio*

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District of Columbia



Commercial 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: City of Portland Pier # 2 - Connercial Street					
Total Square Footage of Proposed Structure		Square Footage of Lot 75.5 acre			
Tax Assessor's Chart, Block & Lot Chart# Block#. Lot# See Attached Tax JuCo. + Figure	Owner: Huine Dep	astment of Transport	atic	Telephone: * 207-624-3000	
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: Reed & Reed, Inc. 275 River Rd Work: \$ <u>15,249,276.00</u> Fee: \$ Fee: \$				
Current Specific use: <u>City of Partland Picr 2</u> Proposed Specific use: <u>Ocean Gating Cruice Ship Terminal</u> Project description: Development of a Multi-Modal Transportation Facility - Cruice Ship Terminal including pier expansion, building construction and site development.					
Contractor's name, address & telephone: Sime AS Applicant Who should we contact when the permit is ready: <u>DUSTIN LITTLEFIELD</u> Mailing address: Same AS Applicant Phone: 107-443-9747					

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

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections 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 of applicant:	Just	Luff	\sum	Date: 7	29	05
		U				

Permit Fee: \$30.00 for the first \$1000.00 Construction Cost, \$9.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



Commercial Building Permit Application Checklist

All of the following information is required and must be submitted in order to help insure an expeditious permitting process.

A Complete Set of construction drawings must include:

Note: Construction documents for construction in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- □ Floor Plans & Elevations
- **u** Window and door schedules
- Foundation plans with required drainage and damp proofing (if applicable)
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

Separate permits are required for internal & external plumbing, HVAC, and electrical installations.

If there are any additions to the footprint or volume of the new or existing structure(s), a plot plan is required and must include:

- The shape and dimension of the lot, footprint of the proposed structure and the distance from the actual property lines drawn to scale. Structures include decks, porches; a bow windows cantilever sections and roof overhangs, sheds, pools, garages and any other accessory structures must be shown.
- Boundary survey to scale showing North arrow; zoning district and setbacks.
- G First floor sill elevation (based on mean sea level datum)
- Location and dimensions of parking areas and driveways
- □ Location and size of both existing utilities in the street and the proposed utilities serving the building
- Location of areas on the site that will be used to dispose of surface water.
- **D** Existing and proposed grade contours
- Silt fence locations

Surveyor's monuments must be in place and the lot staked for a setback inspection.

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

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections office, room 315 City Hall or call 874-8703.

Permit Fee: \$30.00 for the first \$1000.00 Construction Cost, \$9.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.

GURRILL-PALMER CUNS ENG

426.1 permit

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JOHN ELIAS BALDACCI

GOVERNOP

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16 STATE HOUSE STATION AUGUSTA, MAINE 04333-0016

Tax Informatio

DAVID A. COLE

Applicant:
 Project Location:

City of Portland Southside of Commercial Street at the former BIW site, Tax Map #19 Bk A Lots 14, 15; Tax Map #444 Bk A Lots 1,2,3,5; Tax Map #445 Bk A Lots 1, 2; Tax Map # 446 Block A Lots 1,2 in Portland Ocean Gateway

Project: Ocean Gateway Identification Number: Div. 06-00084-A-N Traffic Engineer: Gorrill-Palmer Consulting Engineers

Pursuant to the provision of 23 M.R.S.A. § 704-A and Chapter 305 of the Department's Regulations, the Department of Transportation has considered the application of Woodward and Curran with supportive data, agency review and other related materials on file.

PROJECT DESCRIPTION

The applicant proposes to construct a cruise ship facility that would have an expanded pier to accommodate deep-water vessels, 476 parking spaces, a 6,510 square foot Receiving Station, a 2,190 Square foot Vehicle Inspection Station and areas for queuing for vehicles coming to and from the Scotia Prince, a 10,540 square foot Terminal Building and a 4,020 square foot Passenger Corridor on the Pier. This site is expected to generate 287 a.m. peak hour trips and 539 p.m. peak hour trips. The existing site is permitted for 469 a.m. peak hour trips and 168 p.m. peak hour trips and these will be in addition to the new trips.

Findings

Based on the review of the files and related information, the Department approves the Traffic Movement Permit application of the Ocean Gateway Project, subject to the following conditions:

On Site Mitigation

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- A. Overhead lighting shall be provided, if not already existing, to illuminate the intersections of the site entrance to Commercial Street and to all parking lot entrances onto Commercial and Hancock and at the intersection of Hancock Street and Fore Street. Overhead lighting shall have an average of 0.6 to 1.0 foot candles, with the maximum to minimum lighting ration of not more than 10:1 and an average to minimum light level of not more than 4:1.
- B. The on-site parking and circulation pattern shall be as shown on sheet C201 of Woodard and Curran's plans revised dated 2/20/04 signed and sealed by Barry S. Sheff. The plan shows a connection of Hancock Street to Fore Street and the construction of several parking lots, as well as direction of flow.



THE MAINE DEPARTMENT OF TRANSPORTATION IS AN AFFIRMATIVE ACTION - EQUAL OPPORTUNITY EMPLOYER



From:	"David Senus" <dsenus@woodardcurran.com></dsenus@woodardcurran.com>
То:	"Mike Nugent " <mjn@portlandmaine.gov></mjn@portlandmaine.gov>
Date:	Mon, Oct 24, 2005 12:44 PM
Subject:	FW: Ocean Gateway Building Permit/Few things

Mike:

We are working with the architect (BEA) to address the questions that you have raised thus far. Here are some responses to the questions you emailed last week (10/21):

Question 1: In calculating the required doorway and stair total widths based on the

occupant load of the second level, it becomes necessary to use the double doors and ramp in order to satisfy exiting requirements. My concern is that the type of construction of the ramp does not fall into the type 2 category used in the building, and where this is a component of required egress, it is a conflict. Comments?

Answer 1: We are working on this issue at this time with the Architect and MDOT. We will have an answer soon.

Question 2: Do any of fuel fired equipment stored in the mezzanines have a BTUH input capacity greater than 400,000?

Answer 2: The Terminal Building boiler is in excess of 400,000 BTUH, however, the boiler is on the second level of the Terminal Building, not the mezzanine. The Receiving Station boiler is below 400,000 BTUH.

Question 3: On page A1000T, the railing type "A" detail has a bottom opening of 4

inches and it really need to be "less than" 4 inches.

Answer 3: BEA will revise the detail for the contractor to clarify that the distance specified in detail 7 on page A1000-T shows 4" between top of parapet and center of railing structure; therefore less than 4".

Hopefully these are helpful responses. We will be in touch regarding Question 1 and the other questions that you had.

-Dave

-----Original Message-----From: Gabriel Chavarria [mailto:Gabriel@beai.com] Sent: Friday, October 21, 2005 6:33 PM To: Barry Sheff; Larry Levis; Steve Doel (Bennett Engineering) Cc: David Senus Subject: RE: Ocean Gateway Building Permit/Few things

Gentlemen, I am working in question number 1. I will send it soon. Question 2- As per our code study 2 exits are necessary only when the boiler has more than 400,000 btu. In Terminal Building Boiler B1 located on the "Upper Level", has an input well in excess of 400,000 Btuh. The "Receiving Building" boiler (B2) is less than 400,000.

Question 3- The distance specified in detail 7 at page A1000-T shows 4" between top of parapet and center of railing structure. That means less than 4" opening.

Anyway we will provide a small enlarge to be sure the G.C. understand the issue.

Gabriel Chavarria

BEA International

305 461 2053 ext. 220

www.beai.com <BLOCKED::http://www.beai.com/>

-----Original Message-----From: Barry Sheff [mailto:bsheff@woodardcurran.com <mailto:bsheff@woodardcurran.com>] Sent: Friday, October 21, 2005 9:40 AM To: Larry Levis; Gabriel Chavarria; Steve Doel (Bennett Engineering) Cc: David Senus Subject: FW: Ocean Gateway Building Permit/Few things

Gentlemen, Can you please respond to these questions as early as possible. Please coordinate with David Senus and send him responses.

Thanks Barry

-----Original Message-----From: Mike Nugent [mailto:MJN@portlandmaine.gov <mailto:MJN@portlandmaine.gov>] Sent: Friday, October 21, 2005 9:33 AM To: dpierce@pndsea.com; dlittlefield@reed-reed.com; Barry Sheff Cc: paul.pottle@maine.gov; acavanagh@reed-reed.com; mbuckbee@reed-reed.com Subject: Ocean Gateway Building Permit/Few things

In calculating the required doorway and stair total widths based on the occupant load of the second level, it becomes necessary to use the

double doors and ramp in order to satisfy exiting requirements. My concern is that the type of construction of the ramp does not fall into the type 2 category used in the building, and where this is a component of required egress, it is a conflict. Comments?

Do any of fuel fired equipment stored in the mezzanines have a BTUH input capacity greater than 400,000?

On page A1000T, the railing type "A" detail has a bottom opening of 4 inches and it really need to be "less than" 4 inches.

look forward to hearing from you!

CC: "Larry Levis" <LL@beai.com>, <sdoel@bennettengineering.net>, "Aurele Gorneau II (E-mail)" <aurele.gorneauii@maine.gov>, "Barry Sheff" <bsheff@woodardcurran.com>, "Gabriel Chavarria" <Gabriel@beai.com>, "Shirley Xue" <Sxue@beai.com>, "Dustin Littlefield" <dlittlefield@reed-reed.com>

Mike Nugent - FW: Ocean Gateway Building Permit.

From:"David Senus" <dsenus@woodardcurran.com>To:"Mike Nugent " <MJN@portlandmaine.gov>Date:10/24/2005 1:12 PMSubject:FW: Ocean Gateway Building Permit.

Mike:

I just faxed the sheet. I realized which one you were referring to after leaving a voicemail.

Thanks, Dave

-----Original Message-----From: Barry Sheff Sent: Monday, October 24, 2005 12:43 PM To: David Senus Subject: FW: Ocean Gateway Building Permit.

-----Original Message-----From: Mike Nugent [mailto:MJN@portlandmaine.gov] Sent: Monday, October 24, 2005 12:00 PM To: dpierce@pndsea.com; dlittlefield@reed-reed.com; Barry Sheff Cc: paul.pottle@maine.gov; acavanagh@reed-reed.com; mbuckbee@reed-reed.com Subject: Ocean Gateway Building Permit.

Page S001-T assigns floor loads to the Second Floor, the Mezzanine and the stairways. What is the design load of the first level of the terminal building?

Same Comment with S001-R

Also the roof load called out in S001-R is the lowest I've seen, just want to confirm the equaltion used, primarily the ground snow load.

What is the final design snow load for the Terminal, It is not specified on page S001-T

I couldn't find exterior roof system in the table of contents of the project specs, I 'm looking for compliance with Section 1505.4.1, Physical Properties and 1505.4.2, Impact resistance and 1506 Fire

2/21/2006

classification.

I figured it out...can someone faxe me page "ii" of the spec book, I didn't get one!!!!!!!!

.

From:	"David Senus" <dsenus@woodardcurran.com></dsenus@woodardcurran.com>
То:	"Mike Nugent " <mjn@portlandmaine.gov></mjn@portlandmaine.gov>
Date:	Thu, Oct 27, 2005 2:56 PM
Subject:	FW: FW: Ocean Gateway Building Permit/Ramp

Mike:

BEA is back in the office after the hurricane. Here are some responses to earlier questions. As I mentioned to you yesterday, the ramp will be constructed with structural steel framing for the walls and roof, as per the original plan set.

I know you have a question on the base flood elevation at the Terminal. I need Barry here to answer that question. When you called I was rushing on the way to a meeting so I couldn't answer the call. I promise to be in touch by the end of the day.

Thanks, Dave

-----Original Message-----From: Gabriel Chavarria [mailto:Gabriel@beai.com] Sent: Thursday, October 27, 2005 2:48 PM To: David Senus Cc: Barry Sheff; Larry Levis Subject: RE: FW: Ocean Gateway Building Permit/Ramp

David,

We are here again after this big storm. Thanks God, every body is OK here. Of course some damage to our houses but in my case nothing big.

I'll send you a couple of pictures in next emails.

ANSWER TO QUESTION 1. ramp of Terminal Building.

* As you say, the "ramp" that we used at the project is not a Ramp due its 5% slope (1:20).

There is no definition of RAMP in BOCA code. The only definition appear in NFPA : "A walking surface that has a slope steeper than 1 in 20" [101:3.3]

The only "Ramp" is the end of the structure (close to Receiving Station). At this portion the ramp has 1:12 slope, with the required handrails and a difference in height between landings of 18" (maximum allowed by BOCA code and NFPA is 30"). As we show in the plans, this ramp has the required landing with less than 1:48 slope.

* As a Means of Egress the width is 108 inches (bigger than 44 inches by code) and according to the required capacity (401 persons @ 0.2 inches per person = 81 inches min.).

* In addition we include handrails all over the "ramp" to be sure that the structure is safe for everybody (even though is not required by code).

* The ramp will be surfaced with approved slip-resistant materials (not only as required by code[1016.7.1 Boca] but on all the surface of the passage).

We are reviewing the additional emails to complete the necessary additional information.

Thanks

Gabriel Chavarria BEA International 305 461 2053 ext. 220 www.beai.com <BLOCKED::http://www.beai.com/>

-----Original Message-----From: Mike Nugent [mailto:MJN@portlandmaine.gov <mailto:MJN@portlandmaine.gov>] Sent: Friday, October 21, 2005 1:48 PM To: David Senus Cc: dlittlefield@reed-reed.com; Barry Sheff Subject: Re: FW: Ocean Gateway Building Permit/Ramp

Thanks Dave!

Actually this plan doesn't show some on the things I need. I'm interested in the pitch (section 1016.3), intermediate landings as required (1016.2.4). The earlier type of construction question is covered in Section 1014.9 and referenced in Section 1016.7.

>>> "David Senus" <dsenus@woodardcurran.com> 10/21/2005 1:32:33 PM >>>

Mike:

I apologize for the missing plan sheet. I will send someone over with a

copy. In the meantime, the CD that we submitted has the plan set as PDF if you ever need to see a sheet (plans are numbered sequentially on the CD). I have also attached the PDF for A200 W to this email.

I can either send someone over with that sheet this afternoon, or, if the PDF is sufficient for your review, I will send someone over on Monday with not only that sheet but also the sheets addressing access to

the mezzanine levels (they are in fed ex from Florida at this time). Let me know what you prefer.

Thanks for working with us on this Mike.

Dave

-----Original Message-----From: Barry Sheff Sent: Friday, October 21, 2005 12:59 PM To: David Senus Subject: FW: Ocean Gateway Building Permit/Ramp

Can you take care of this. Maybe remind him of the CD we gave him and have a paper copy brought down there. Thanks B

-----Original Message-----From: Mike Nugent [mailto:MJN@portlandmaine.gov <mailto:MJN@portlandmaine.gov>] Sent: Friday, October 21, 2005 12:57 PM To: dpierce@pndsea.com; dlittlefield@reed-reed.com; Barry Sheff Cc: paul.pottle@maine.gov; acavanagh@reed-reed.com; mbuckbee@reed-reed.com Subject: Ocean Gateway Building Permit/Ramp

Can I get page A200 W, it is not in my plan set and I need to evaluate this for compliance with Section 1016 of the 1999 BOCA Code.



41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, and Florida Operational offices throughout the U.S.

			AN AN
TO:	Marge Schmuckal, Zoning Administrator City of Portland City Hall, 3 rd Floor	DATE:	5114 mg/5
	389 Congress Street Portland, ME 04101		ER NO THE
RE:	Flood Hazard Development Permit Application	- OCCAN GATEWAY	
WE ARE SE	ENDING:		
QUANTITY 1	DESCRIPTION FLOOD HAZAND DEVELO ARTILLE III, DIV. 26.	S-FLOOD PLAIN MANAL	LICATION SLMENT REGS.
	For Your: USE X APPROVAL REVIEW/COMMENTS INFORMATION OTHER	Sent By. REGUL FEDER UPS COURI X OTHEF	AR MAIL AL EXPRESS ER
COMMENT	S:		
ļ	MARGE: PLEASE FIND THE FLOOD HAZARD SIGNED BY JOE GRAY. SITE PLANS, HAVE ALL BEEN SUBMITTED TO PLAN & BUILDING PERMIT APPLI HAVE ANY QUESTIONS, 774-2112,	DEVELOPMENT PERMIT FLOOD MAPS & PROP THE CITY AS PART CATIONS. LET ME 1	- AMPLIATION ERTY BOUNDARIES OF MAJOR SITC KNOW IF YOU
CC:	THANKS, DAVE SENUS	BY: DAS	AS
	ELEVATION CER	TIFICATES SUBMITTE	D 11/2/04,
	MARGE ACKNOWLES	OGED CENTIFICATES	OVER PHONE 9/14/05

TRANSMITTAL

FLOOD HAZARD DEVELOPMENT PERMIT APPLICATION

TORT	LAND	
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. Maine

(All applicants must complete entire application) [60.3(e)]

Application is hereby made for a Flood Hazard Development Permit as required under Article II of the Floodplain Management Ordinance of <u>Percaup</u>, Maine, for development as defined in said ordinance. This permit application does not preclude the need for other municipal permit applications.

Owner:	CITY OF PORTLAND Address: 389 CONGRESS ST, PORTLAND, ME 04101	
Ph. No:	(207) 541-6900 40 COMMERCIAL ST, PORTLAND, ME 04101 WATERFRONT OFFICE	
Applicant:	STATE OF MAINE DEPT. OF TRANSPORTATION Address: 16 STATE HOUSE STATION, AUGUSTA, ME 0433	3
Ph. No:	(207) 624-3420 MULTIMODAL - PAUL POTILE, PROJECT MANAGER	
Contractor	REED & REED, INC LITTLEFIELD Address: 275 RIVER ROAD, WOOLWICH, ME 04579	
Ph. No:	(207) 443 - 9747	
LEGAL I Is this lot a	DESCRIPTION a part of a subdivision? DYes DNo If yes, give the name of the subdivision and lot number:	
Tax Map:	445 Lot #: <u>A001</u> 4 A002	
Address:	40 Commancial St Street/Road Name	
Zip Code:	64101	
General ex	splanation of proposed development: OCEAN GATEWAY - MARINE TRANSPORTATION FACILITY,	
CONSTR	WLTION OF 2 BUILDINGS WITHIN DESIGNATED FLOOD ZONES - TERMINAL BUILDING	***
Estimated	value of improvements: <u>\$15,249,276.00</u> - RECEIVING STATION	

OTHER PERMITS

Are other permits required from State or Federal Jurisdictions? SYes DNo If yes, are copies of these permits attached? DYes ZNO DNot Applicable

Federal and State Permits may include but not limited to: ME/DEP/Natural Resource Protection Act, Site Location of Development Act, Metallio Mineral Exploration, Advanced Exploration and Mining; USACE/Section 9'&10 of the Rivers and Harbors Act/ Section 404 of the Clean Water Act; Federal Energy Regulation Commission.

DOCAMON	This see	an seit <u>in wang</u> ang ty	Municipel Official)	and a set	
Floodingsource mane of ri	ven: pond, ocean, atc):	e e e e e e e e e e e e e e e e e e e			
UNIS 2016 DAL 201 DERINGE DELOODW	er ⊒ AE Zone ⊂ A113 t¥ 193 width of Boodph	GrZone E AZOne: uz n AZone)			
L'oroponed development le note the Nearcey Cross Sect	on any (AE) or (A.D-ACIO low References and Ele	Conte and cross sex ation of Base Flood	ion dáis is availsb SUN-sarcsi CrossiS	e in the Ficher/Insu scient	anto Study pice
Ciross Section.	Баж	Fleori Elevation			
Abovę Site	Abo Belo	ve Site			
Basa Faced Elevation (56)	al the syleNGV	VII (Required for Ne	w Construction or	Substântat Improv	enentsi
Hasis of A Zone Life determ D.Sport & Redenal	Agency DUSOS (C.	USDAINRES EUS	ACE		
and the second			PRO222 45 5597 75 18443 8010	1436 P. (17 1) 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. S. C. S. S. S. C. C. S. S. S. C. C. S.

IL CX

LI Neuvanychonneus on Substanus, Improve

1129.00

TYPE OF DEVELOPMENT

Line coverconcentaryo

YAD DE

Check the appropriate box to the left for the type(s) of development requested, and complete information for each applicable line:

1.1.8.1. T.

1. Residential Structure	Dimensions		Cubic Yards
🗆 1a, New Structure		□ 5. Filling ¹	
□ 1b. And to Structure		□ 6. Dredging	······································
C 1c. Renovations/other changes		7. Excavation	······································
2. Non-Residential Structure	AMINAL - 112 #75 (2FLR)	3. Levee	
🛛 2a, New structures	LGIVING - 77'x 77'	🖬 9. Drilling	
2b. And to Structure		-	Number of Acres
□ 2c. Renovations/other changes		🗆 10. Mining:	
2d.Floodproofing		11. Dam: Water surface to be created	
🖾 3. Water Dependent use:		12. Water Course Alteration	······································
32. Dock 33. Piet - Environment FOR	150 + 12'	Detailed description must be atta	ached with copies of
30. Boat Ramp TERMINAL		an applicatio stale and learna p	
I 3d. Other BLDG -		Li 13. Oliet, Explain	
4. Paving			
_ ··· _ ···			

¹Certain prohibitions apply in Velocity Zones

2
Attachment and Site Plan - drawn to scale with north arrow

- Show property boundaries, floodway and floodplain lines.
- Show dimensions of the lot.
- Show dimensions and location of existing and/or proposed development on the site.
- Show areas to be cut and filled.
- For New Construction or Substantial Improvement, also include existing grade elevations done by a Professional Land Surveyor, Architect or Engineer.
- For New Construction or Substantial Improvement, attach statement describing in detail how each applicable development standard in Article VI will be met.

Special Note: Substantial Improvement is defined as any reconstruction, rehabilitation, addition or other improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the start of construction of the improvement. Please refer to the floodplain management ordinance, Article XIII, for more complete definitions of New Construction and Substantial Improvement.

Structures in Velocity Zones are not permitted on fill or excavations. Structures must be built on open foundation systems, i.e., columns, piles, posts. (Article VI §L)

The Applicant Understands and agrees that:

- The permit applied for, if granted, is issued on the representations made herein;
- Any permit issued may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- Any permit issued on this application will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The applicant hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- If issued, the permit form will be posted in a conspicuous place on the premises in plain view and;
- If issued, the permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and the attachments to this application are a true description of the existing property and the proposed development project.

9-16-00 Date Owner signatu OT Authorized Agent Date

signature

Form Revised August 2, 1995

FLOOD HAZARD DEVELOPMENT PERMIT PART I

LERMINAL BUILDING

(For New Structures or Substantial Improvements)

For new Structures or Substantial Improvements, this Flood Hazard Development Permit allows construction only up to the establishment of the lowest floor. Once the lowest floor is established, the permittee must provide an elevation certificate establishing the as built lowest floor elevation. When the Code Enforcement Officer finds the documentation to be in compliance with the Floodplain Management Ordinance, the permittee must then apply for the Part II Flood Hazard Development Permit in order for construction to continue.

For new Structures or projects that are deemed Substantial Improvements, the grade elevation at the lowest grade adjacent to the existing or proposed wall is: <u>11.77</u>_NGVD.

The proposed Lowest Floor Elevation will be 12.3.

(for VI-30 and VE Zones the lowest floor elevation is measured at the bottom of lowest structural horizontal part of the structure)

Sewage disposal; - existing & proposed - not applicable Type WET WELL TO FORCEMAIN TO SHORE (INTO CITY SEWER

Tax Map: 445 Lot #: A002

The permittee understands and agrees that:

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view and;
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and the attachments to this permit are a true description of the existing property and the proposed development project.

4 Owner signature Date_ Authorized Agent signature Issued by Date ____ Permit #

FLOOD HAZARD DEVELOPMENT PERMIT PART I

DOATLAND, Maine

KECEIVING STN

(For New Structures or Substantial Improvements)

For new Structures or Substantial Improvements, this Flood Hazard Development Permit allows construction only up to the establishment of the lowest floor. Once the lowest floor is established, the permittee must provide an elevation certificate establishing the as built lowest floor elevation. When the Code Enforcement Officer finds the documentation to be in compliance with the Floodplain Management Ordinance, the permittee must then apply for the Part II Flood Hazard Development Permit in order for construction to continue.

For new Structures or projects that are deemed Substantial Improvements, the grade elevation at the lowest grade adjacent to the existing or proposed wall is: 12.43 MGVD.

The proposed Lowest Floor Elevation will be 13.43_.

(for V1-30 and VE Zones the lowest floor elevation is measured at the bottom of lowest structural horizontal part of the structure)

Sewage disposal; 🗆 existing 🌾 proposed 🗔 not applicable	Type Sewer service (GRAVITY) TO CITY SEWER
Tax Map: 445 Lot #: 4001	

The permittee understands and agrees that:

- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued;
- The permit will not grant any right or privilege to erect any structure or use any premises described for any purposes or in any manner prohibited by the ordinances, codes, or regulations of the municipality;
- The permittee hereby gives consent to the Code Enforcement Officer to enter and inspect activity covered under the provisions of the Floodplain Management Ordinance;
- The permit form will be posted in a conspicuous place on the premises in plain view and;
- The permit will expire if no work is commenced within 180 days of issuance.

I hereby certify that all the statements in, and the attachments to this permit are a true description of the existing property and the proposed development project.

Owner signatu

Date 9-16-05

Authorized Agent

signature

Date_

Issued by

Permit#

Date



41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, and Florida *Operational offices throughout the U.S.*

TRANSMITTAL

		Project #: 20343	B
то:	Marge Schmuckal, Zoning Administrator	DATE:	11/02/04
	City of Portland		
	City Hall, 3 rd Floor		
	389 Congress Street		
	Portland, ME 04101		
RE:	<u>Site Plan Approval Documents – Ocean Gateway</u>		
WE ARE SE	ENDING:		
CONTANTITY	DESCRIPTION	A CONTRACTOR	
COARTIT	DESCRIPTION		
11	Signed Elevation Certificate (FEMA	form 81-31) for Receiving	ng Station
11	Signed Elevation Certificate (FEMA	form 81-31) for Termina	al Building
	For Your	Sent By:	
	XUSE	X	REGULAR MAIL
	OTHER		OTHER
			OTHER
	·		
COMMENT	S: Marge,		
As a cond Board's ap Building a	lition of the Ocean Gateway Approval letter addressed to oproval of the Ocean Gateway Project, please find enclose nd Receiving Station. These certificates are being provide	to Jeff Monroe, dated J ad the signed and sealed ad in accordance with co	une 8, 2004 concerning the Planning Elevation Certificate for the Terminal ndition 2(b) of that letter.
Feel free to	o give me a call, if you have any questions concerning the	se documents.	
CC: Paul I	Pottle, MDOT		
Jeff M Bill N	Ionroe, City of Portland ("/o ENCLOSURES)	t	\rightarrow
Din N	(W/ ENCLOSURES)	DV. D	- Om-
		Bi: Bai Pro	iect Manager
1			

FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

O.M.B. No. 3067-0077 Expires December 31, 2005

Importa	nt: Read the instructions on pages 1 - 7	7.		
SECTI	ON A - PROPERTY OWNER INFORMAT	ION	For Insurance Company Use:	
BUILDING OWNER'S NAME City of Portland			Policy Number	
BUILDING STREET ADDRESS (Including Apt., Unit, Suite, a Terminal Building - Ocean Gateway	and/or Bidg. No.) OR P.O. ROUTE AND BC	NO.	Company NAIC Number	
CITY Portland	STATE ME	ZIP COD 04101	- L	
PROPERTY DESCRIPTION (Lot and Block Numbers, Tax F	Parcel Number, Legal Description, etc.)			
BUILDING USE (e.g., Residential, Non-residential, Addition, .	Accessory, etc. Use a Comments area, if n	ecessary.)		
LATITUDE/LONGITUDE (OPTIONAL) HC (##° - ## - ##.##* or ##.#####*) INA	DRIZONTAL DATUM: SC D 1927 🖾 NAD 1983	DURCE: GPS (Type USGS Qua): ad Map	
SECTION B - FL	DOD INSURANCE RATE MAP (FIRM) IN	FORMATION		
B1. NFIP COMMUNITY NAME & COMMUNITY NUMBER	B2. COUNTY NAME	B3	, STATE	
		!Vic		
B4. MAP AND PANEL B5. SUFFIX B6. FIRM INDEX NUMBER B5. SUFFIX B6. FIRM INDEX 230051 0014 B 7/17/1976	B7. FIRM PANEL DATE EFFECTIVE/REVISED DATE 7/17/1976	B8. FLOOD ZONE(S) A	B9. BASE FLOOD ELEVATION(S) (Zone AO, use depth of flooding)	
B10. Indicate the source of the Base Flood Elevation (BFE) data or to FIS Profile FIRM Communi B11. Indicate the elevation datum used for the BFE in B9: NGVD	pase flood depth entered in B9. ty Determined 🛛 Other (Descrit) 1929 □ NAVD 1988	be): <u>City Approved Water L</u>	<u>evel Analysis</u> <u>MLLW</u>	
BTZ. IS the building located in a Coastal Barrier Resources System (CBRS) alea Or Otherwise Frotected Area (OFA			
SECTION C - BUILL	ING ELEVATION INFORMATION (SUR			
C1. Building elevations are based on: 🛛 Construction Drawings*	Building Under Construction*	Finished Construction		
*A new Elevation Certificate will be required when construction of	of the building is complete.			
C2. Building Diagram Number 5 (Select the building diagram most s	milar to the building for which this certificate is b	eing completed - see page	es 6 and 7. If no diagram	
accurately represents the building, provide a sketch or photogra	ph.)			
C3. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30,	V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, A	NRAH, ARIAO		
Complete Items C3a-i below according to the building diagram	specified in Item C2. State the datum used. If the	ne datum is different from th	he datum used for the BFE in	
Section B, convert the datum to that used for the BFE. Show field	d measurements and datum conversion calcula	ation. Use the space provid	ded or the Comments area of	
Section D or Section G, as appropriate, to document the datum	conversion.			
Datum 0.00 MLLW Conversion/Comments 0.00 MLLW = -4.57	NGVD 1929			
Elevation reference mark used BM #3 1971 Does the elevation	reference mark used appear on the FIRM?]Yes 🛛 No 🦵		
a) Top of bottom floor (including basement or enclosure)	16. 87 ft.(m)			
b) Top of next higher floor	32 87 ft(m)	Se		
 c) Bottom of lowest horizontal structural member (V zones or 	N/A ft (m)	sed		
 d) Attached garage (top of sigh) 	N/A ff (m)	D S C	X X	
e) I owest elevation of machinery and/or equipment		a de la		
servicing the building (Describe in a Comments area)	16.87 ft (m)	ber, ure,		
□ f) I owest adjacent (finished) grade (LAG)	16.24 ft(m)	Juat		
\square a) Highest adjacent (finished) grade (LAC)	10.34 ft.(11)	Z Sic		
U b) No of portransition of any light of the start	<u>10. 34</u> ft.(m)	Suas		
(D) i) Total area of all normaniant apartitions (flood verifies) within 1 ft, above				
	<u>1.00</u> sq. in. (sq. cm)			
SECTION D - SUR	VEYOR, ENGINEER, OR ARCHITECT C	ERTIFICATION		
This certification is to be signed and sealed by a land survey	or, engineer, or architect authorized by law	to certify elevation inform	nation.	
I certify that the information in Sections A, B, and C on this ce	artificate represents my best efforts to interp	pret the data available.		
I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.				
CERTIFIER'S NAME Bruno Elias Ramos		LICENSE NUMBER ARC	2644	
TITLE Licensed Architect	COMPANY NAME BE	A International		
ADDRESS		QTATE		
4111 Le Jeune Road	Miami	FL	33146	
SIGNATURE	DATE	TELEPHO	ONE	

FEMA Form 81-31, January 2003

See reverse side for continuation.

10-19-04

Replaces all previous editions

305 46 120 53

IMPORTANT: In these spaces, copy th	e corresponding information from S	Section A.		For Insurance Company Use:
BUILDING STREET ADDRESS (Induding Apt., Unit,	Suite, and/or Bldg. No.) OR P.O. ROUTE AND B	OX NO.		Policy Number
CITY Portland	STATI		ZIP CODE 04101	Company NAIC Number
SECTION	D - SURVEYOR, ENGINEER, OR AN	RCHITECT CERTIN	ICATION (CONTINUE	D)
Copy both sides of this Elevation Certificate for	(1) community official, (2) insurance agent/	company, and (3) built	ding owner.	
COMMENTS	i M. 2004 film in die Erich Annul			
City Approved Water Level Analysis conducted	In May 2004 determined a finish floor eleva	ation of 16.87 (U.UU M	LLW)	
			·····	·
Top of mech. mezzanine floor = 46.37. Eleva	tor machine room + 16.87' MLLW			Check here if attachments
SECTION E - BUILDING ELEV	ATION INFORMATION (SURVEY N	OT REQUIRED) F	OR ZONE AO AND ZO	ONE A (WITHOUT BFE)
For Zone AO and Zone A (without BFE), complet	e Items E1 through E4. If the Elevation Ce	rtificate is intended for	use as supporting informa	ation for a LOMA or LOMR-F,
Section C must be completed. E1. Building Diagram Number 5 (Select the build	ng diagram most similar to the building for	which this certificate is	being completed – see pa	ages 6 and 7. If no diagram accurately
represents the building, provide a sketch or p	hotograph.)			- <u></u>
E2. The top of the bottom floor (including basement natural grade, if available).	ent or enclosure) of the building is $\underline{0}$ ft.(m)	<u>6</u> in.(cm) ⊠ above o	· 📋 below (check one) th	ne highest adjacent grade. (Use
E3. For Building Diagrams 6-8 with openings (see	e page 7), the next higher floor or elevated t	floor (elevation b) of th	e building isft.(m)	in.(cm) above the highest adjacent
grade. Complete items C3.h and C3.i on fro	nt of form.	(in (am) NZ -t-	· [] halow (-ho-trans) (he highest adjourned and a liter
E4. The top of the platform of machinery and/or e natural grade, if available)	quipment servicing the building is Utl.(m)	on.(cm) 🖾 above or	L below (check one) tr	ne nignest aujacent grade. (Use
E5. For Zone AO only: If no flood depth number	is available, is the top of the bottom floor ek	evated in accordance	with the community's flood	dplain management ordinance?
Yes No Unknown. The local	official must certify this information in Secti	on G.		
SECTION	F - PROPERTY OWNER (OR OWNE	ER'S REPRESENT	ATIVE) CERTIFICATIO	ON
The property owner or owner's authorized repre- issued BFE) or Zone AO must sign here. The	sentative who completes Sections A, B, C statements in Sections A, B, C, and E are c	(Items C3.h and C3.i correct to the best of r	only), and E for Zone A (w <i>ny knowledge</i> .	ithout a FEMA-issued or community-
PROPERTY OWNER'S OR OWNER'S AUTH	ORIZED REPRESENTATIVE'S NAME			
ADDRESS		CITY	STA	TE ZIP CODE
4111 Le Jeune Road		Miami	FL	33146
SIGNATURE SIGNATURE		DATE 10/19/04	TEL 305	EPHONE 4612053
COMMENTS Bottom floor elevation for Termin	al Building determined by City Approved W	ater Level Analysis.		
······································			······································	······
		·····		
	SECTION G - COMMUNITY IN	FORMATION (OP	TIONAL)	
The local official who is authorized by law or ordir	ance to administer the community's floodp	lain management ord	inance can complete Sect	ions A, B, C (or E), and G of this Elevatio
Certificate. Complete the applicable item(s) and	sign below.		·	
G1. [] The information in Section C was taken f	rom other documentation that has been sig	ned and embossed b	y a licensed surveyor, eng	gineer, or architect who is authorized by s
or local law to certify elevation information	n. (Indicate the source and date of the elever For a building located in Zone A (without a	Vation data in the Con	nments area below.) hmunity-issued BEE) or Zo	
G3. The following information (Items G4-G9)	is provided for community floodplain mana	gement purposes.		
G4. PERMIT NUMBER	35. DATE PERMIT ISSUED	G6. D	ATE CERTIFICATE OF CON	IPLIANCE/OCCUPANCY ISSUED
G7. This permit has been issued for: 🕅 New Co	nstruction Substantial Improvement			
G8. Elevation of as-built lowest floor (including ba	sement) of the building is:		ft.(m)	Datum:
G9. BFE or (in Zone AO) depth of flooding at the	building site is:		ft.(m)	Datum:
LOCAL OFFICIAL'S NAME		TITLE		
COMMUNITY NAME		TELEPHO	NE	
SIGNATURE		DATE		
COMMENTS		······································		
				Check here if attachments

Replaces all previous editions



Incorporated

CONSULTING ENGINEERS

PND No. 00439.22

May 21, 2004

Attn: Barry Sheff Woodard & Curran 41 Hutchins Drive Portland, ME 04102

RE: Pier 2 and Pier 2 Expansion, Recommended Finish Floor Elevation.

Dear Barry:

This letter summarizes our findings for our work effort to determine a recommended finish floor elevation for Pier 2 Terminal Building and Pier 2 Expansion Project. Our work included review of the existing FIRM report for the site and conducting an independent analysis by obtaining additional information in the area. As you know, the FIRM map did not include Pier 2. Additional requests to obtain the supporting analysis yielded no information to help validate the previous work by FEMA. We therefore relied on the existing tide gage information at the Maine State Pier and wind data from a buoy off the adjacent coast to conduct our analysis and provide our recommendation. (See final reports previously sent.) This recommendation was reviewed by STRATEX, a peer review consultant hired by the City of Portland, which concurred with our recommendation. In conclusion, our recommendation is that the minimum finish floor elevation for the project should be 12.3 feet <u>NGVD29</u>. This was in recognition of the project structures assessed to be in an A-Zone along with the Maine State Pier as shown on the FIRM map. The recommended finish floor elevation was determined as follows:

SWL + $\frac{1}{2}$ H_m + H_t = Finish Floor Elevation

9.6 + (1/2)(3.6) + .9 = 12.3 feet NGVD29

SWL = Still water level for 100 year tide at the Maine State Pier (FIRM)

- H_m = Mean Wave Height as determined by PND using site specific information (PND)
- $H_t = .9$ ft, an agreed upon correction accounting for tide effects (.63) and uncertainties
 - (.27) in global climates for a 100 year future consideration. (PND & STRATEX)

If you have any additional questions, please contact me at any time.

Sincerely,

PND Incorporated Seattle Office

and Prese.

David Pierce, P.E., S.E. Vice President

FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM

O.M.B. No. 3067-0077 Expires December 31, 2005

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1 - 7.

			veau ule instructions on	pages 1 · 1	•	
		SECTION	A - PROPERTY OWNER	NFORMAT	ION	For Insurance Company Use:
BUILDING OWNER'S NA	ME					Policy Number
City of Portland						
BUILDING STREET ADD Receiving Station - Ocean	RESS (Including / n Gateway	Apt., Unit, Suite, and/o	or Bldg. No.) OR P.O. ROU	TE AND BO	X NO.	Company NAIC Number
CITY			STATE		ZIP CO	DE
Portland	01/1-1-10	Number T. D	ME		04101	
PROPERTY DESCRIPTION Parcel ID - 445 A001	UN (Lot and Block	Inumbers, Tax Parce	el Number, Legal Descriptio	n, etc.)		•
BUILDING USE (e.g., Res	sidential, Non-resid 1 / Ticketing Building	tential, Addition, Acce	essory, etc. Use a Commer	nts area, if ne	ecessary.)	
LATITUDE/LONGITUDE	(OPTIONAL)	HORIZ	ONTAL DATUM	SC		ne);
(##°-##'-##.##" or ##	.#####P)	NAD 19	27 🛛 NAD 1983	00		uad Map 🛛 Other: Survey
	S	ECTION B - FLOOD	INSURANCE RATE MA	P (FIRM) IN	FORMATION	
B1. NFIP COMMUNITY NAME	& COMMUNITY NUM	BER	B2. COUNTY NAME		E	33. STATE
Unity of Portland			Cumberland County		N	viaine
B4. MAP AND PANEL			B7. FIRM PAN	EL		B9. BASE FLOOD ELEVATION(S)
NUMBER	B5. SUFFIX	B6. FIRM INDEX DAT	E EFFECTIVE/REVISE	D DATE	B8. FLOOD ZONE(S)	(Zone AO, use depth of flooding)
230051 0014	В	//17/1976	//1//1976		A2	14.57
B10. Indicate the source of the	Base Flood Elevat	ion (BFE) data or base	flood depth entered in B9.			
FiS Profile	KI FIRM			ther (Describ	e):	0.14 (1))/
B11. Indicate the elevation dat	tum used for the BF	E IN 89: 1 NGVD 192	19 🛄 N	VAVD 1988	Uther (Describe): 0	<u>UMLLW</u>
B12. Is the building located in	a Coastal Barner Re	esources System (CBR	S) area or Otherwise Protecte	d Area (OPA))? <u>Yes</u> X No	Designation Date
	SEC	TION C - BUILDING	ELEVATION INFORMA	ION (SURV	EY REQUIRED)	
C1. Building elevations are bas	sed on: 🛛 Constru	ction Drawings*	Building Under Constructi	on* 🔲 l	Finished Construction	
*A new Elevation Certifica	te will be required w	then construction of the	building is complete.			
C2. Building Diagram Number	1 (Select the buildir	ng diagram most simila	to the building for which this o	certificate is be	eing completed - see pa	ges 6 and 7. If no diagram
accurately represents the	building, provide a s	sketch or photograph.)				
C3. Elevations Zones A1-A3	10, AE, AH, A (with E	3FE), VE, V1-V30, V (w	ith BFE), AR, AR/A, AR/AE, A	R/A1-A30, A	R/AH, AR/AO	
Complete Items C3a-i be	elow according to th	e building diagram spe	cified in Item C2. State the dat	um used. If th	e datum is different from	the datum used for the BFE in
Section B, convert the dat	um to that used for	the BFE. Show field me	asurements and datum convi	ersion calcula	tion. Use the space prov	vided or the Comments area of
Section D or Section G, a	s appropriate, to do	cument the datum conv	ersion.			
Datum 0.00 MLLW Conv	version/Comments (0.00 MLLW = -4.57 NG	V <u>D</u> 1929			
Elevation reference mark	used BM #3 1971 E	loes the elevation refer	ence mark used appear on the	eFIRM? □	Yes 🖾 No 🛛 Г	
a) Top of bottom floor	(including basement	t or enclosure)	18. 00 ft.(m)			
 b) Ton of next higher fl 	001		30 66 ft (m)		See	~
c) Bottom of lowest bo	rizontal structural m	ember (V zones only)	$\frac{300}{10}$, $\frac{300}{10}$, $\frac{100}{10}$,		sed	$\dot{\nabla}$
d) Attached garage (to	n of slab)		$\frac{1}{N} = \frac{1}{N} = \frac{1}$		posi Da	
All Awart alayation of	poroious) machinony and/or o	quinment	<u></u>		anc	NO
sorvicing the huildin	na (Describe in a Co	mments area)	20 66 # (m)		ber, ure,	
TALOWEET adiacont (fini	shed) arade // ACV	antono alcaj	$\frac{30}{17}$, $\frac{00}{00}$ it.(11)		mat	XAX-
	bished) grade (LAG))	17.0011.(11)		Sić N	()) =
y) Highest aujacent (ill	noning (flood works) Vuithin 1 ft chave a di-	<u>17</u> . <u>94</u> IL.(M)		Sens	
inj ivo. or permanent op i) Total area of all areas	penings (nood vents) within T π. above adja	uent grade <u>U</u>		Ľ	
	ianent openings (flo	od vents) in C3.h 0.00	sq. m. (sq. cm)	·		
	SE	CTION D - SURVEY	OR, ENGINEER, OR ARC	CHITECT CI	ERTIFICATION	
This certification is to be si	igned and sealed	by a land surveyor, e	ngineer, or architect author	ized by law t	o certify elevation info	rmation.
I certify that the information	n in Sections A, B	and C on this certifie	ate represents my best eff	orts to interp	ret the data available.	
l understand that any false	statement may b	e punishable by fine	or imprisonment under 18 L	J.S. Code, S	ection 1001.	
CERTIFIER'S NAME Bruno	Elias Ramos	· · · · · · · · · · · · · · · · · · ·			LICENSE NUMBER AF	RC 2644
TITLE Licensed Architect			COMPAN	IY NAME BE	A international	
ADDRESS						700 0005
4111 Le Jeune Road			Ul Y Miami		SIALE	ZIP UUDE 33116
SIGNATURE	6-2-	<u></u>	NATE		דבו בחו	
	Ø 1/~.	ノ	10-18-04		1 ELEM 205 161	2053
		<u>د</u>	10-10-04			

FEMA Form 81-3 January 2003

5 3

Replaces all previous editions

IMPORTANT: In these spaces	, copy the corresponding information fror	n Section A.		For Insurance Compar	ny Use:
BUILDING STREET ADDRESS (Induding	g Apt., Unit, Suite, and/or Bldg. No.) OR P.O. ROUTE AN	D BOX NO.		Policy Number	
CITY Portland	ST ME	ATE	ZIP CODE 04101	Company NAIC Numb	er
S	SECTION D - SURVEYOR, ENGINEER, OR	ARCHITECT CE	ERTIFICATION (CONTINU	JED)	·····
Copy both sides of this Elevation Cer	tificate for (1) community official, (2) insurance age	ent/company, and (3) building owner.		
COMMENTS					
Mezzanine Level with mechanical eq	uipment is 12'-8" (plan) / 30'-8" (MLLW)		en e		
		<u></u>			
				Check here if a	ttachments
SECTION E - BUILDI	NG ELEVATION INFORMATION (SURVEY	NOT REQUIRE	D) FOR ZONE AO AND 2	ZONE A (WITHOUT BFE))
For Zone AO and Zone A (without BFE	E), complete Items E1 through E4. If the Elevation	Certificate is intend	led for use as supporting infor	mation for a LOMA or LOMR	ξ-F,
E1. Building Diagram Number (Selec	t the building diagram most similar to the building t	for which this certifi	cate is being completed – see	pages 6 and 7. If no diagram	n aœuratelv
represents the building, provide a	sketch or photograph.)				······
E2. The top of the bottom floor (includir natural grade, if available).	ng basement or endosure) of the building isft	.(m)in.(cm) 🔲 a	above or 🔲 below (check o	ne) the highest adjacent grac	le. (Use
E3. For Building Diagrams 6-8 with ope grade. Complete items C3.h and	enings (see page 7), the next higher floor or elevat C3.i on front of form.	ed floor (elevation b	b) of the building isft.(m)	in.(cm) above the highest a	adjaœnt
E4. The top of the platform of machine	ry and/or equipment servicing the building is $\{ m ft}$.(m)in.(cm) 🔲 a	above or 🔲 below (check o	ne) the highest adjacent grac	le. (Use
ratural grade, it available). E5. For Zone AO only: If no flood dent	h number is available, is the top of the hottom floor	elevated in accord	ance with the community's flo	odplain management ordinar	nce?
Yes No Unknown.	The local official must certify this information in Se	ection G.			
S	SECTION F - PROPERTY OWNER (OR OW	NER'S REPRES	SENTATIVE) CERTIFICA	TION	
The property owner or owner's autho issued BFE) or Zone AO must sign h	rized representative who completes Sections A, B ere. The statements in Sections A, B, C, and E a	, C (Items C3.h and re correct to the bes	d C3.i only), and E for Zone A st of my knowledge.	(without a FEMA-issued or α	ommunity-
PROPERTY OWNER'S OR OWNER	R'S AUTHORIZED REPRESENTATIVE'S NAME				
ADDRESS		CITY	5	ATE ZIP CODE	
4111 Le Jeune Road	\frown	Miami	FL	33146	
SIGNATURE			TE 30	ELEPHONE 5.4612053	
COMMENTS (10/15/04			
4	***				ttachmonto
	SECTION G. COMMUNITY				llauments
The local official who is authorized by la	aw or ordinance to administer the community's floc	dolain manageme	nt ordinance can complete Se	ctions A, B, C (or E), and G c	of this Elevatio
Certificate. Complete the applicable ite	em(s) and sign below.				
G1. The information in Section C w	vas taken from other documentation that has been	signed and embos	sed by a licensed surveyor, e	ngineer, or architect who is a	uthorized by s
or local law to certify elevation	information. (Indicate the source and date of the d Section E for a building leasted in Zone A (without	elevation data in the	e Comments area below.)		
G3. The following information (Iter	is G4-G9) is provided for community floodplain ma	inagement purpose	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	LUIE AU.	
G4. PERMIT NUMBER	G5. DATE PERMIT ISSUED		G6. DATE CERTIFICATE OF CO	OMPLIANCE/OCCUPANCY ISS	UED
G7. This permit has been issued for:	New Construction D Substantial Improveme	nt	<i></i>	5 ·	
G8. Elevation of as-built lowest floor (in $G9$ REE or /in Zone AO) depth of floor	duding basement) of the building is:		ft.(m)	Datum:	_
			,iu(iii)		
LOCAL OFFICIAL'S NAME		L	<u></u>		
		TELE	EPHONE		
SIGNATURE		DAT		······································	
COMMENTS		······			
•				······	
			······································		<u> </u>
				Check here if at	tachments

Page 1

From:	"Barry Sheff" <bsheff@woodardcurran.com></bsheff@woodardcurran.com>
То:	"Mike Nugent " <mjn@portlandmaine.gov></mjn@portlandmaine.gov>
Date:	Thu, Oct 27, 2005 5:58 PM
Subject:	RE: Ocean Gateway Part One Flood Hazard Development Permit

Mike-

We have reviewed the information we've submitted including the Elevation Certificates for the project (for the Terminal Building, and for the Receiving Station), and checked those against the elevations in the Flood Hazard Development Permit Part 1 (for each building) and find them all to be in agreement with no differences. I'm not sure that I understand your concerns relating to different elevations. That said, to clarify any questions you might have, the elevation certificates and the project Contract Documents are based upon MLLW=0, while the Flood Hazard Development Permit is based upon the reference vertical datum of NGVD 1929, and a difference of 4.57'. We have attempted to be clear in all of our submittals but recognize there is potential for confusion (please refer to Elevation Certificate paragraph C3 and the conversion comments).

The Receiving Station was determined to be in an A2 zone with a BFE elevation 10 NGVD (14.57 MLLW). The Terminal Building was similarly determined to be located within an A2 zone, however no BFE was determined.

As relating to the BFE, attached is a copy of our Site Plan application material relating to Flood Plain Management (as approved by the Board and accepted by the Zoning Administrator) that clarifies the flood zone determination issues. The Flood Plain Management issues took considerable effort to resolve during the Site Plan review process and regrettably you were not a participant in those discussions. When we included those Site Plan application materials with the Flood Hazard Development Permit Part 1(s) for the two buildings on September 16, 2005, we had hoped it would be clear what had transpired in the process. I apologize for not reaching out sooner to try to bring you up to speed.

We recognize that you are trying to get this issue resolved, I've cc'd the Zoning Administrator to be sure that you have the opportunity to confirm this information with her.

As relating to the conditions you propose, we have some comments: Condition 1-Certification requirements are acceptable.

Condition 2-Certificate of Design for Pier A submitted on September 26, 2005 covers the certification that the project meets the BOCA design standards, and the condition could/should be revised and limited to the need for construction certification.

Condition 3-Condition should be revised to refer to our Waiver Request (submitted on October 20, 2005) and your Agreement with that Waiver Request and the testing methods proposed (response by email on October 20, 2005).

I hope that this provides you the necessary information for you to issue the Ocean Gateway Part One Flood Hazard Development Permit. Please contact me if you have any questions or need additional information. Barry Barry Sheff, PE Project Manager 207.774.2112 x3266

Woodard & Curran 41 Hutchins Drive Portland, ME 04102 1.800.426.4262 www.woodardcurran.com

-----Original Message-----From: Mike Nugent [mailto:MJN@portlandmaine.gov] Sent: Thursday, October 27, 2005 3:43 PM To: dpierce@pndsea.com; Barry Sheff; David Senus Cc: LL@beai.com; rjohnson@pndsea.com; dlittlefield@reed-reed.com Subject: Ocean Gateway Part One Flood Hazard Development Permit

I am prepared to issue the above permit with the following conditions attached, I'm waiting for confirmation of the base flood elevation: (I actually have three draft elevation ceriticates with three different elevations specified)

--This permit is a Part One Flood Hazard Permit. It allows the holder to install the pilings and First level decking for the Ocean Gateway Terminal Building as associated access pier ONLY. The Design professional must then certify that the construction complies with the elevation required by the Floodplain Management standards in the Zoning Ordinance on a FEMA Elevation Certificate.

--The Pile Cap Connections and seimic ties must be designed & constructed in accordance with Section 1816.11.1 and 1816.11.2, plans, certifying this specific standard must be submitted and approved, prior to that phase of construction.

--Pilings must be installed and tested in accordance with Section 1817.4 of the 1999 BOCA Code. Copies of all inspection and testing records must be forwarded to this office prior to the Issuance of the Part Two permit.

CC: <LL@beai.com>, <dpierce@pndsea.com>, "David Senus"
<dsenus@woodardcurran.com>, "Paul Pottle (MaineDOT)" <Paul.Pottle@maine.gov>, "Larry Mead "
<LSM@portlandmaine.gov>, "Marge Schmuckal (Portland)" <mes@portlandmaine.gov>



41 Hutchins Drive • Portland, ME 04102 (207) 774-2112 • 1-800-426-4262 Fax: (207) 774-6635

CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, New York, New York, Florida *Operational offices throughout the U.S.*

TRANSMITTAL

TO:	Dustin Littlefiel	d		DATE:	February 01, 2006	
	Reed & Reed			PROJECT NAME:	Ocean Gateway	
	P.O. Box 370			PROJECT NUMBER:	203438.12	
	Woolwich, ME	04579				
	in is round a series of the series of the resolution					
RE:	Revised Plans –	Walkway, Rec	eiving Stn			
WE ARE SE	NDING:					
Quotatio	n	🛛 Drawing	S	Bid Package	Floppy Disk / CD	
Brochure	Ð	Schedul	е	Installation Package	Sample	
Change	Order	Manuals	6	Other (specify	1	
	Qtv	Rev. No.	Dated		Description	
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J Sets 0			01/31/2006	Reviseu waikway r		
					с.	
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	🖂 USE				AR MAIL	
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				R		
□ OTHER OTHER OTHER - Dropped off at Site Trailer				- Dropped off at Site Trailer		
Dustin:						
Please find enclosed the following revised plans. These plans clarify the roof column line locations and clarify the framing connections.						
S100-W, S10 ⁻	I-W, S200-W			/		
Thanks, Dave	Senus		Y3D'	う		
CC: Ken Pag Ben Sno Mike Nu	ge (1 Set of Drawi w (1 Set of Draw agent (1 Set of Dr	ngs) ings) awings)		BY: DAS		



Public Works Engineering Memorandum

Date: January 5, 2004

To: Barry Sheff, P.E., Woodard and Curran Inc.

From: Eric J. Labelle, P.E., City Engineer, Portland ME

Cc: Michael Bobinsky, Director of Public Works Katherine Earley, P.E., Engineering Manager

RE: Proposed Commercial and Hancock Street Extension

This memo serves as confirmation that the City of Portland's Public Works Department does intend to inspect, clean, and maintain the casco traps and catch basins which are to be installed as part of this project which are installed within the right of way consistent with the City's Best Management Practices. The City of Portland, being an MS4 community, shall be conducting its BMPs per its NPDES Phase II Stormwater Workplan approved by the Maine Department of Environmental Protection. Furthermore, the City of Portland does not object to connecting stormwater lines to its existing outfalls, including the 15"CPE and 30"CMP at the east end of the Ocean Gateway site, and the 21" RCP at the CBITD facility.



C FILE

225 Douglass St. • P.O. Box 3553 • Portland, ME 04104-3553

(207) 774-5961 FAX (207) 761-8307 www.pwd.org

November 17, 2003

Mr. Kenneth Vollock, Engineer Woodard & Curran 41 Hutchins Drive Portland, Maine 04102

Subject: Ocean Gateway – Phase I Reference: Your letter to Jim Pandiscio dated October 14, 2003

Dear Mr. Vollock:

Thank you for your letter and its detailed explanation of the potential water demands your project may impose on the District's water system. I am pleased to indicate that the existing water system can meet your stated needs with only minor off-site expansion. Further, we need to carefully consider how the water system internal to your project connects to the public system, to assure that existing customers are not adversely affected by the large demands of major ships.

We undertook a hydraulic model study of a 1500 gallon per minute (gpm) flow taken from the existing system at the corner of India and Commercial Streets to determine the pressure impact in the vicinity and to see if there would be any adverse impact away from the site. We found that normal static pressures at average demands are approximately 102 pounds per square inch (psi) in the project vicinity. The higher elevations of Munjoy Hill have corresponding static pressures of approximately 45 psi. When we apply the 1500 gpm demand to the system, project area pressures drop by 6 psi, to approximately 96 psi. Corresponding pressures on Munjoy Hill drop to approximately 43 psi. Although 96 psi is substantial water pressure, and we believe very good normal service to surrounding customers, we are concerned that the 6 psi drop under routine conditions would be noticeable. The 2 psi drop that would be experienced by some Munjoy Hill customers is relatively greater as a percentage of static and also concerns us.

To reduce the variation of water pressure in the project vicinity and elsewhere, we looked at several upgrade alternatives including larger water mains on Franklin Arterial, India Street and Mountfort Street. These would all be

2001 Governor's Award for Environmental Excellence Becycled Paper expensive, disruptive during construction and produce relatively small positive impact. Of these, increasing the main on India Street from Commercial to Congress where it would connect into the existing 20" main was the most beneficial. This had some additional impact on Munjoy Hill however.

Your letter mentions extending both Commercial and Hancock Streets. We proceeded to investigate water system improvements in these extended streets. We propose that you extend the 12" main on Commercial Street easterly from India Street and tie this through the extension of Hancock Street to the intersection of Hancock and Newbury Streets with 8" main. This has the effect of drawing the water for your project from a wider area and minimizes pressure fluctuations as a result. Multiple service points and meters to your project may also further minimize pressure fluctuations due to Ocean Gateway demand.

One final point is that the projected maximum volume of 540,000 gallons per day is available within the existing capacity of our treatment and pumping facilities. Thus, no upgrade of these facilities is anticipated to result from the Ocean Gateway project.

We will be interested to discuss these findings further with you and to understand more completely the site plan for your project. Please contact me at your convenience as your plans develop so that we can coordinate the points of service and metering issues that would have to be addressed for the project.

Yours truly, Portland Water District

C. Hewett, P.E

hay C. Hewett, P.E Chief Engineer