

FAY, SPOFFORD & THORNDIKE

778 Main Street, Suite 8 South Portland, ME 04106 Toll Free: 800 835 8666 Main 207 775 1124 Fax 207 879 0896 www.fstinc.com

October 13, 2013

Building Inspections Office City of Portland, Maine 389 Congress Street Portland, Maine 04101-3509 ATTN: Marge Schmuckal

Subject: Permit # 201302298

Canal Landing New Yard - Phase 1

40 West Commercial Street Applicant: New Yard, LLC

Height information and Flood Hazard Development Permit Application for New

Tension Fabric Structure

Dear Marge:

We have received your email transmission dated 10/10/2013 related to a request for additional building height information as well as the flood hazard development permit application for the proposed tension fabric structure at the New Yard, 40 West Commercial Street. Regarding the additional information related to the building height and compliance with the WPDZ code requirements we offer the following evidence:

- 1. The proposed building will be installed on a cast in place concrete foundation wall with a top elevation at 15.0' (NGVD29). The building eave dimensional height is 20'-3 ½" (20.29') and the clear dimensional height is 47'-10 5/16" (47.86'). From top of foundation to roof peak the estimated overall dimensional height is approximately 49'.
- 2. In accordance with Section 14-47 of the Code of Ordinances the overall building height is defined as the vertical measurement to a midway point between the level of the eaves and the highest point of pitched roofs. For the proposed building this is measured as follows:

Step 1 Find midway point between eave height and top of structure or 49.0' - 20.29' = 28.71' divided by 2 = 14.36'

Step 2 midway point dimensional height above top of foundation = 20.29' + 14.36'= 34.65' (or elevation 49.65')

Building Inspections Office October 13, 2013 Page 2

Step 3 Compute building height over average existing ground grade around building perimeter. In accordance with Section 14-47 of the Code of Ordinances the Average exterior grade around the building perimeter is computed to be approximately elevation 13.3' (see attached plan). The overall building height is measured as follows:

Average ground grade = elevation 13.3'
Elevation at midway point of pitched roof = elevation 49.65'
Building height is computed as 49.65' - 13.3' = 36.35'

Conclusion: The dimensional building height as defined for pitched roofs is computed to be approximately 36.35' which is less than the maximum allowable building height in the WPDZ which is 45.0' therefore the proposed building is compliant. The accompanying figure 1 depicts the dimensional measurements and elevations used for these computations.

3. In accordance with Section 14-320.2 (e)1.e, the overall building height above mean sea level is computed at follows:

Step 1 Foundation wall height will be set at elevation 15.0'

Step 2 Overall building dimensional height is approximately 49'

Step 3 Top of building elevation = 15' + 49' = 64'

Conclusion: The top of the proposed building will be at elevation 64.0' (NGVD29) which is less than the maximum allowable of Elevation 65.0' above mean sea level.

With respect to the Flood Hazard Development Permit application we have completed the forms and include the following information as it appears to be required on Page 3 of the application for the proposed building.

Site Plan

- 1. show property boundaries, floodway and floodplain lines the previously submitted existing conditions plan for the boat ramp was annotated to identify the limits of the elevation 10.0 ft. (NGVD29) floodplain limit based on an on the ground survey.
- 2. Show dimensions of the lot See previously submitted Existing conditions Plan
- 3. Show dimensions and location of existing and/or proposed development on the site The accompanying proposed Grading and Drainage plan depicts the proposed development and it has been annotated to clarify the proposed building floor elevations. Generally speaking the east side overhead door entrance will be at elevation 13.0' (NGVD29). The building floor will consist of a gravel surface which will be sloped from

Building Inspections Office October 13, 2013 Page 3

west to east. The westerly floor grade will be approximately elevation 15.0'. No portion of the building floor will be less than elevation 13.0' thus meeting the minimum floor grade of elevation 12.0'.

- 4. For new construction also include existing grade elevations done by a Professional Land surveyor or Engineer the accompanying plans have been prepared by Owen Haskell Inc. and Fay, Spofford & Thorndike, Inc., professional land surveyors and engineers respectively.
- 5. For New Construction attach statement describing in detail how each applicable development standard in Article VI will be met See as follows:

In accordance with Section 14-450.8 of the Code of Ordinances:

- (a) 1. Standard is met as the proposed project has been designed to include an engineered cast in place concrete foundation system.
 - 2. The standard is met as the proposed building will be constructed on cast in place and precast concrete materials.
 - 3. The proposed ramp and float systems have been designed by Licensed Professional Engineers and have been designed to prevent flood damage based on alignment and placement.
 - 4. This standard is not applicable.
- (f) 1. The proposed building has been set at least two (2) feet above the base flood elevation of 10.0'

Based on this accompanying information we trust that you can complete the processing of the proposed building permit and foundation permit as well as the Flood Hazard Development Permit application. If you have any questions or require any additional information, please contact our office.

Sincerely,

FAY, SPOFFORD & THORNDIKE, LLC

Stephen Bushey, P.E., C.P.E.S.C.

Senior Engineer

SRB/smk

Enclosures: Amended Site Plans

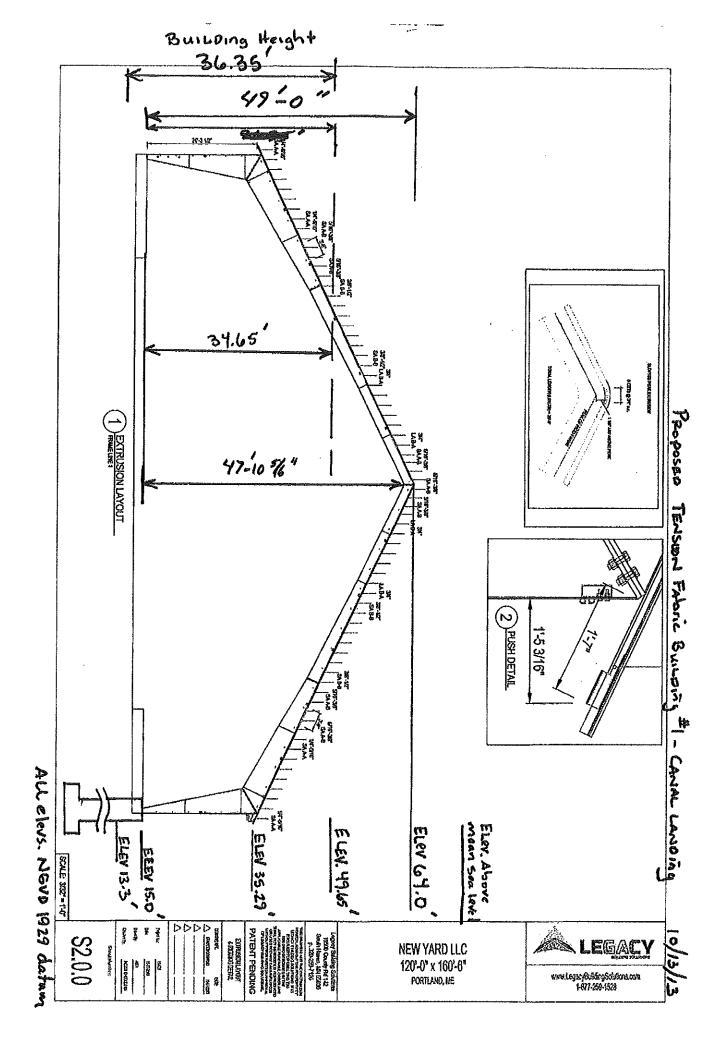
c: Bill Needelman, City Planning

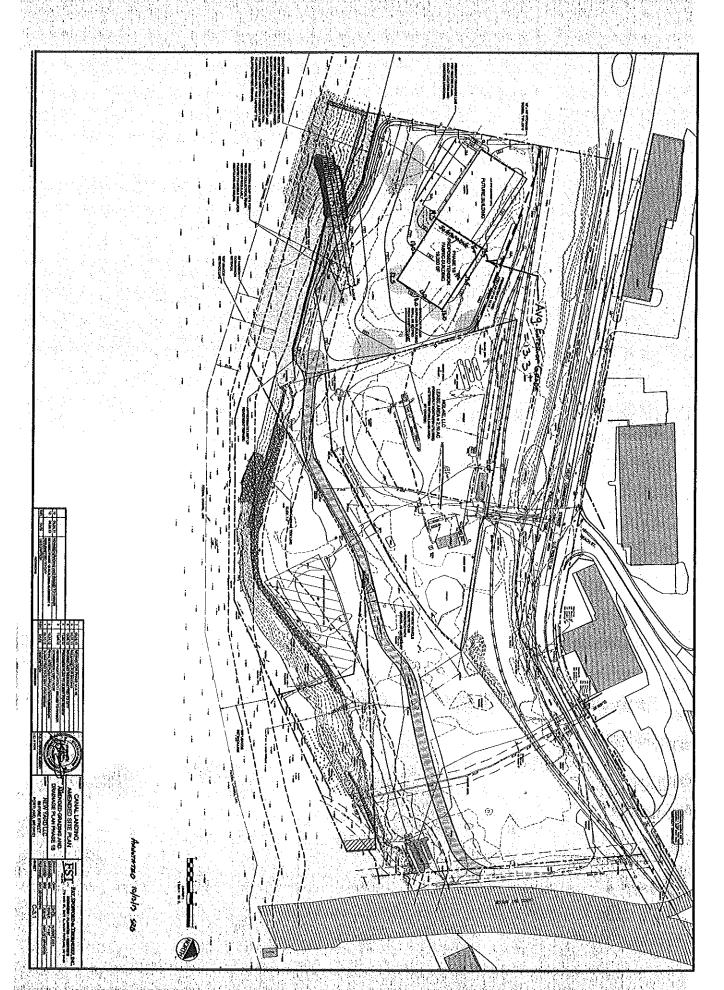
FAY, SPOFFORD & THORNDIKE

Building Inspections Office October 13, 2013 Page 4

> Phin Sprague, New Yard, LLC Bob Flight, New Yard, LLC Peter Plumb, Murray, Plumb and Murray

R:\3091.02-Canal Landing-Amended Site Plans\Admin\Permitting\Commercial Building application\3091.02 2013.10.13-Height and Flood Hazard Development permit Cover.doc





Marge Schmuckal - Canal Landing Building height and Flood Hazard Development Permit

From:

"Stephen Bushey" <SBushey@fstinc.com>

To:

"Marge Schmuckal" <MES@portlandmaine.gov>

Date:

10/13/2013 12:45 PM

Subject:

Canal Landing Building height and Flood Hazard Development Permit

CC:

"Phineas Sprague Jr." <phin@portlandyacht.com>, <flight@portlandyacht.co...

Attachments: Flood Hazard Development Permit application 10-13-2013.pdf; 3091.02 2013.10.13-Height and Flood Hazard Development permit Application Cover.pdf; scan 449.pdf;

Building height cross section diagram.pdf

Marge,

Please see the attached information for your review and consideration. Please advise if you need any further information pertaining to the building's compliance with the WPDZ height requirements and Flood Hazard Permit application.

thanks

Stephen Bushey PE| Senior Principal Engineer

FAY, SPOFFORD & THORNDIKE

formerly DeLuca Hoffman Associates 778 Main Street | South Portland, Maine 04106 Tel: (207) 775-1121 Fax: (207)879-0896 sbushey@fstinc.com | www.fstinc.com

The information transmitted in this electronic communication is intended only for the person or entity to whom it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of or taking of any action in reliance upon this information by persons or entities other than the intended recipient is prohibited. If you received this information in error, please contact IT Services at 800-835-8666 and properly dispose of this information.

Please consider the environment before printing this email.

FLOOD HAZARD DEVELOPMENT PERMIT APPLICATION

PortLAND, 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 Portland, Maine, for development as defined in said ordinance. This permit application does not preclude the need for other municipal permit applications.
owner: New Ymd LLC. (Phuns Shadress: 58 Fou St For LAnd
Ph. No: 207-774-1067
Ph. No: 207-774-1067 Applicant/Agent: FST INC BUSHEY Address: 778 Maine St. So. Portland O410:
in the first the state of the s
Contractor: LEGACY BUILDING SOUTIONS Address: 19500 COMNTY PD 142 South HAMM WIN SEBSO
Ph. No: 320-259-7126
LEGAL DESCRIPTION
Is this lot a part of a subdivision? DYes MNo If yes, give the name of the subdivision and lot number:
Subdivision: Lot #:
Tax Map: 59-A-1, Z, 3, 4, 5, 6, 7, 8, 9, 10, Lot #: 2
Subdivision: Lot#: Tax Map: 59-A-1, Z, 3, 4, 5, 6, 7, 8, 9, 10 [1] [1] Address: 40 W< St Commercial Street/Road Name Street/Road Name
Zip Code:
General explanation of proposed development: Construction of 120'-0"x 160'-6" Tension
FAbrica building - AND related Sitework
Estimated value of improvements: \$ 1600,000
OTHER PERMITS
Are other permits required from State or Federal Jurisdictions? MYes INo If yes, are copies of these permits attached? MYes INo INot Applicable (Presidually submitted)
Federal and State Permits may include but not limited to: MB/DEP/Natural Resource Protection Act, Site Location of Development Act, Metallic Mineral Exploration, Advanced Exploration and Mining; USACB/Section 9'&10 of the Rivers and Harbors Act/ Section 404 of the Clean Water Act; Federal Energy Regulation Commission.
Chie Seonou (o becompleted by Vainicipes Official)
Dalat . Sabundud
Wernight to Sauetland

	ovaniamoresumavasamasiavamas (moleccesas socialis embanos	oshoonsamurroomeanikka
(filtresjön) t LOGATION::- : : : : : : : : : : : : : : : : : :	ecomplegity, Auritapa Officials :	
Elvian zure Eloopwayaa vuntet Esapkuna		
Epreportal developments in its AET on Vallace CV Zone	aud coss sedior du a is available in lie Rioscu.	urance Chicky please
mote the Hearest Urbs Section (Seterances and Elevation) Cross Destion Hase Fleed		
Abeyesia III. a III. Abyesie		
Buse From Diovalina, (de) Haheerte <u>IO</u> viewd (Re		
BESSOR A ZOOF DE GEETTERSON MAN DE PROPER ZOON DE USOS ET VERA TENTO ESTRESARON DE L'ANDRE TOURS ELESARDIBLE EST PLOISSE CONTINUE SUPPLOS	arcs busing double free kilo k	in S
in exablished by Protestipal Phytheorem 20 El Highestik nova Waterilevel	HECE EINY EXOLIGIA VEIDING VIX	
ALUR ARSHINDS		
ikiherievolepineitänvärves inproventalistoian ekistines ISNetyaavetopriontoi Salvaantaliimprovenetites		
TYPE OF DEVELOPMENT	•	
Check the appropriate box to the left for the type(s) of deve	elopment requested, and complete information for	each applicable line;
☐ 1. Residential Structure Dimensions ☐ 1a. New Structure ☐ 1b. And to Structure	□ 5. Filling ^t □ 6. Dredging	Cubic Yards
☐ 1c. Renovations/other changes 13-2. Non-Residential Structure	☐ 7. Excavation☐ 8. Leves	
☐ 2a. New structure ☐ 2b. And to Structure ☐ 2c. Renovations/other changes	_ □ 9. Drilling - □ 10. Mining:	Number of Acres

□ 2d.Floodproofing .

☐ 3. Water Dependent use:
☐ 3a. Dook
☐ 3b. Pier
3o. Boat Ramp

☐ 3d. Other

🛘 4. Paving

☐ 7. Excavation
☐ 8. Levee
☐ 9. Drilling

Number of Acres
☐ 10. Mining:
☐ 11. Dam; Water surface to be created
☐ 12. Water Course Alteration

Detailed description must be attached with copies of all applicable state and federal permits.
☐ 13. Other: Explain

A S

¹Certain prohibitions apply in Velocity Zones

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.

Owner	,		Date
	signature		
or	1200	•	1 1
Authorized Agent	Stylesukey		Date 10/13/13
	· signature	•	

U.S. DEPARYMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

National Plood Insurance Program

O.M.B. NO. 1660-0008 Expires Merch 31, 2012

FLOODPROOFING CERTIFICATE

FOR NON-RESIDENTIAL STRUCTURES

The floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation; however, a floodproofing design certification is required. This form is to be used for that certification. Floodproofing of a residential building does not after a community's floodplain management elevation requirements or affect the insurance rating unless the community has been issued an exception by FEMA to allow floodproofed residential basements. The permitting of a floodproofed residential basement requires a separate certification specifying that the design compiles with the total floodplain management ordinance,

specifying that the desig	in compiles with the loca	el floodpiein manage	ment ordinance,	•	•
New YAN LLC				FOR VISUALISM	COMPANY DESCRIPTION
STREET ADDRESS (Including Age., Unit, Suite, and/or Bidg, Number) Or Ro. Route and Box Mariber				POLATIONA	THE STATE OF THE S
	treet		anni anni anni anni anni anni anni anni	COMPANY	
SE. 40 WES	t Commerce	IAL /52	B Commerce		
PORTLAND	tagif for the William of the foreign the compression constituent that the constituent of the constituent of the	g kilili janji filila kupika kuman kuman da manan kuman k	INNI		5 4101
***************************************	8E0	mon i flood insur	ance rate map (firm) info	RMATION	
Provide the following from	the proper FIRM:				
CONVENIEN HAMBER	Pavel Humber	8Vrnx	Cave of Fight Hoex	ARM ZOHE	else flood elevation on ad zoros, use depth)
230051	. lQ	B	December B, 1998	2-A	ele 10
	SECTION II FLOODP	ROOFING INFORMATIO	N (By a Registered Professio	nal Engineer or Architect	
Floodproofing Design Elevi	ation information:				to the state of th
			feet NGVO. (Elevation date		me as that on the FIRM.)
Height of floodpr	ooling on the building abo	ve the lowest adjacent	grade is		
(NOTE: For Insure rating credit. If th	ence rating purposes, the lee building le floodproofed	building's floodproofed only to the Base Floo	design elevation must be at d Elevation, then the building	least one foot above the 's Insurance rating will re	e Base Flood Elevation to receive suit in a higher promium.)
	SECTION III	CERTIFICATION (By R	egistered Professional Engin	eer or Architect)	
Hon-Residential Floodproof	iad Construction Carlinos	itioni			
I certify that, bas tion are in accord	ed upon development end, Janoe with eccepted stand	or review of atructural ards of prectice for me	design, specifications, and pi eting the following provisions:	ans for construction, the	design and methods of construc-
The structur walls that a	re, together with attendent re substantially impermeal	udilities and canitary ble to the passage of	facilities, is waterlight to the water.	floodproofed dealgn elev	vation indicated above, with
All structure debils impa	i componenta are capable ot forces.	of resisting hydrostol	lo and hydrodynamio flood fo	roes, including the effect	s of buoyancy, end anticipated
i certify that the i punishable by fin	information on this certifica e or imprisonment under i	ale represents my besi 18 U.S. Code, Section 1	efforts to interpret the data (001,	evallable. I understand th	at any faise statement may be
CERTIMER'S KAME	· · · · · · · · · · · · · · · · · · ·	resident de la company de la c	nse (ruhiben (or Afric Saat)	o opportunities de la companya del companya del companya de la com	### The section of th
TITLE		COM	PANT HAME	overdavenih belava se le as gazanishazargade avelak ozaketekilmeni.	de de la companya de
ADDRESS	nada da ada ada ada ada ada ada ada ada	City	BIATE	200 900£	dress more contracted and contracted
SIGHATURE	er til skrivet kom den skrivet	CATE	PHONE	ing speciment displacing the supplier property speciments and supplier for the supplier for	42-400-600000000000000000000000000000000
Coples	should be made of this Co	ertificate for: 1) comm	unity official, 2) insurance as	ent/company, and 3) but	kling owner.
