

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION PERMIT

Please Read
Application And
Notes, If Any,
Attached

PERMIT ISSUED
Permit Number: 060028
JAN - 6 2005
CITY OF PORTLAND

This is to certify that 1039 RIVERSIDE LLC / Partner Construction

has permission to Steel Erection Only for a 10

AT 1039 RIVERSIDE ST

331 A001001

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of the City of Portland and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and when permission procedure is complete this building or part thereof shall be closed or service closed-in. 4 HOUR NOTIFICATION REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Previously Approved
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

PERMIT ISSUED

Permit No: 06-0028
 Issue Date: JAN 6 2005
 CBL: 331 A00100
 Phone: 2073245574

Location of Construction: 1039 RIVERSIDE ST	Owner Name: 1039 RIVERSIDE LLC	Owner Address: 340 FORE ST
Business Name:	Contractor Name: Patco Construction	Contractor Address: 1293 Main St Sanford
Lessee/Buyer's Name	Phone:	Permit Type: Steel Only-Commercial

CITY OF PORTLAND
 Phone: 2073245574

Past Use: Vacant Land w/ Foundation (see foundation Only permit #051786)	Proposed Use: Steel Erection Only for a 10,000Sq. Ft. Structure	Permit Fee:	Cost of Work: \$0.00	CEO District: 5
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FIRE DEPT: Approved Denied
PRD

INSPECTION:
 Use Group: *STEEL* Type: *2B*
ONLY
1/6/06

Signature: *[Signature]*
 PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Proposed Project Description:
 Steel Erection Only for a 10,000Sq. Ft. Structure

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False information may invalidate a building permit and stop all work..	Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>PREVIOUSLY APPROVED</i>	<input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
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CERTIFICATION

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

 SIGNATURE OF APPLICANT ADDRESS DATE PHONE

 RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

City of Portland, Maine - Building or Use Permit

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

Permit No: 06-0028	Date Applied For: 01/06/2006	CBL: 331 A001001
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Location of Construction: 1039 RIVERSIDE ST	Owner Name: 1039 RIVERSIDE LLC	Owner Address: 340 FORE ST	Phone:
Business Name:	Contractor Name: Patco Construction	Contractor Address: 1293 Main St Sanford	Phone (207) 324-5574
Lessee/Buyer's Name	Phone:	Permit Type: Steel Only-Commercial	

Proposed Use: Steel Erection Only for a 10,000 Sq. Ft. Structure	Proposed Project Description: Steel Erection Only for a 10,000 Sq. Ft. Structure
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1) Steel ONLY!



Structural Tests and "Special Inspection" Requirements For a Typical Pre-Engineered Metal Building Structure

(Per Chapter 17 of the 2003 International Building Code)

Site and Fill Materials:

- o Field observe sub-grade conditions prior to placement of any fill or concrete for foundations and slab
- o Field sample and perform laboratory test(s) on each soil fill material to be used
- o Observe placement and perform compaction tests on foundation and sub-slab fill materials
- o Review compliance to soils report material
- o Review lift thickness of foundation and sub-slab backfill

Reinforcing:

- o G.C. to submit reinforcing shop drawings for review prior to placement
- o G.C. to submit reinforcing and anchor bolt material certification sheet(s) for review
- o Field observe reinforcing at foundation walls for compliance with size, grade, spacing, location, and embedment.
- o Field observe reinforcing and/or WWF at structural slabs and slabs-on-grade for compliance with size, grade, spacing, location, and embedment.

Formwork:

- o Review formwork
- o Review form removal and re-shoring

Concrete:

- o G.C. to submit all mix designs to engineer for review a minimum of 10 business days before placement
- o G.C. to submit all admixtures to engineer for review a minimum of 10 business days before placement
- o G.C. to submit material certification of all slab dowels to engineer for review a minimum of 10 business days before placement
- o Review and observe field placement of all concrete: footings, walls, slabs, etc..
- o Review and observe curing techniques for footings, walls, and slabs
- o Field test concrete for slump, air, and temperature
- o Field cast four (4) cylinders for each placement to be tested for strength
- o Field observe dowel size and spacing for control and construction joints at walls and slab(s)

Steel Fabrication: (Only for structural steel not fabricated by metal building manufacturer)

- o Review and observe steel fabrication shop procedures

Steel Construction:

- o G.C. to provide material certificates for bolts, nuts, washers, and weld filler (if field welding is to be performed) material
- o Review field connections

Steel Erection:

- o G.C. to provide welders certificate for each person performing any field welding
- o Review primary steel connections
- o Verify pre-tensioning of slip-critical bolts (hanger and moment connections) by certified testing laboratory for proper bolt tension/torque.
- o Review moment connections
- o Review shear connections
- o Review bracing connections
- o Review wall girt connections
- o Review roof purlin connections
- o Review steel roof deck installation
- o Review wall siding installation

G.C. NOTE: YOU MUST NOTIFY THE MATERIALS TESTING FIRM AND THE PROJECT SPECIAL INSPECTOR A MINIMUM OF 48 BUSINESS HOURS PRIOR TO SERVICE BEING PERFORMED TO ALLOW FOR PROPER SCHEDULING OF PERSONNEL

05-124
Bioprocessing

Page 2 of 6

Quality Assurance Plan

Quality Assurance for Seismic Resistance (Per Varco-Pruden Calculations)

Seismic Design Category **C**

Quality Assurance Plan Required (Y/N) **N** *yes*

Description of seismic force resisting system and designated seismic systems:

PORTAL FRAME AT GRID A AND M WITH CONTINUOUS BEAM RIGID FRAMES AT GRID 1, 2, 3, 4, 5 AND 6

Quality Assurance for Wind Requirements

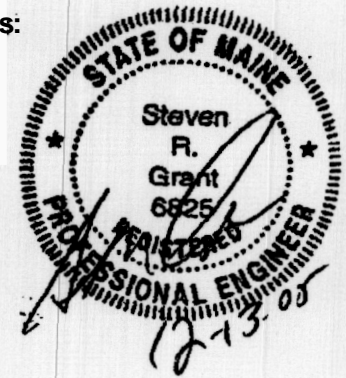
Basic Wind Speed (3second gust) **100 MPH**

Wind Exposure Category **B**

Quality Assurance Plan Required (Y/N) **N**

Description of wind force resisting system and designated wind resisting components:

Revised 12/13/05
SRG ENGINEERING, INC.
P.O. Box 925
GRAY, ME 04039



Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

VARCO-PRUDEN MUST SUBMIT THIS, SEE PATCO CONSTRUCTION



SRG Job#05-124

To: City of Portland Code Enforcement Department
Attn: Mr. Mike Nugent

From: Steven R. Grant, President

Date: December 13, 2005

Subject: Bioprocessing: Quality Assurance Plan

Project Location: 1039 Riverside Street, Portland

Seismic resisting lateral support will be provided by Portal Frames at Grids A and M, with Continuous Beam Rigid Frames at Grids 1, 2, 3, 4, 5 and 6.

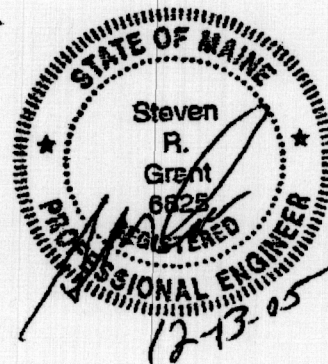
SRG Engineering has subcontracted with S.W. Cole Engineering (contact Craig Turcotte at 657-2866) a maximum of three (3) site visits to provide metal roof deck and structural steel connection review that include any diaphragm bracing at roof and walls, frame bolts, and anchor bolts. Bolts at moment connections will be checked for proper tension/torque and shear connections will be checked for all plies to be in firm contact per AISC. In addition, S.W. Cole Engineering has budgeted for a maximum of 8 site visits to field review foundation reinforcing (footings/walls/piers) and anchor bolt placement. Site visits by S.W. Cole and SRG Engineering are planned to be on a limited basis throughout the construction of the foundation and building structure. In addition, SRG Engineering budgeted for a maximum of four (4) site visits to observe construction for conformance with contract documents as well.

We have asked that PATCO Construction notify SRG Engineering and S.W. Cole Engineering a minimum of 48 hours prior to all required site visits. SRG Engineering has also provided a copy of the attached check list to PATCO for their use/reference.

Please call should you have questions.

Steven R. Grant, P.E.
President

SRG: srg





Letter of Certification

Date: 10/20/2005
Time: 11:00:11 AM
Page: 1 of 2

Letter of Certification

Contact: Jason Gardner or Bill Rudman
Name: PATCO CONSTRUCTION
Address: 1293 MAIN ST

Project: Bio Processing Inc
Builder PO #
Jobsite 1039 Riverside Street

City, State: Sanford, Maine 04073
Country: United States

City, State: Portland, Maine 04103
County, Country: Cumberland, United States

Shape	Overall Width	Overall Length	Floor Area (sq. ft.)	Wall Area (sq. ft.)	Roof Area (sq. ft.)	Max. Eave Height	Min. Eave Height2	Max. Roof Pitch	Min. Roof Pitch	Peak Height
main	100/0/0	100/0/0	10000	8033	10035	20/0/0	14/0/0	1.000:12	1.000:12	24/2/0

Loads and Codes - Shape: main

City: Portland County: Cumberland
Building Code: 2003 International Building Code
Building Use: Standard Occupancy Structure

State: Maine
Built Up: 89 AISI
Cold Form: 96 AISI

Country: United States
Rainfall: 4.00 in per hour
Allow. Overstress:
Frm: 1.03, See: 1 03, Br: 1.03

Dead and Collateral Loads

Collateral Gravity 300 psf
Collateral Uplift: 0.00 psf

Roof Covering + Second. Dead Load, Varies
Frame Weight (assumed for seismic): 3.00 psf

Live Load

Live Load: 20.00 psf Not Reducible
LL for Below Eave Canopy: N/A

Wind Load

Wind Speed: 100.00 mph
Wind Exposure (Factor): B (0.701)
Parts Wind Exposure Factor: 0.701

Snow Load

Ground Snow Load: 70.00 psf
Design Snow (Sloped): 49.00 psf
Snow Exposure Category (Factor): 2 Partially Exposed (1.00)
Snow Importance: I 000
Thermal gory (Factor): Heated (1.00)
Ground / R of Conversion: 0.70
% Snow Used in Seismic: 20.00
Seismic Snow Load: 9.80 psf
Unobstructed, Slippery Roof

Seismic Load

Mapped Spectral Response - Ss: 37.40 %g
Mapped Spectral Response - SI: 10.00 %g
Seismic Hazard / Use Group: Group 1

Wind Enclosure: Enclosed
Wind Importance Factor: 1.000
Topographic Factor: 1.0000
Hurricane Prone Region
Base Elevation: 0/0/0
Primary Zone Strip Width: 11/2/6
Parts / Portions Zone Strip Width: 5/7/3
Basic Wind Pressure: 15.24 psf

Seismic Importance: 1.000
Seismic Performance / Design Category: C
System NOT detailed for Seismic
Framing Seismic Period: 0.0000
Bracing Seismic Period: 0.0000
Framing R-Factor: 3.0000
Bracing R-Factor: 3.0000
Soil Profile Type: Stiff soil (D, 4)
Frame Redundancy Factor: 1.0000
Brace Redundancy Factor: 1.0000
Frame Seismic Factor (Cs): 0.0556
Brace Seismic Factor (Cs): 0.0500

American Institute of Steel Construction (AISC)
American Iron and Steel Institute (AISI)
American Welding Society (AWS) [D1.1]
American Society for Testing and Materials (ASTM)
Metal Building Manufacturers Association (MBMA)
AISC Category MR Manufacturer Certification.

apply to unauthorized modifications to framing systems provided by VP BUILDINGS.

understand that certification
strict compliance with pertinent documents

Sincerely,

CARL W. WALKER
VP BUILDINGS
3200 Players Club Circle, Memphis TN 38125-8843

P.E. Prepared by:

WTC



Letter of Certification

Date: 10/20/2005

Time: 11:00:11 AM

Page: 2 of 2

The Structural Design and/or Manufacture of this VP BUILDINGS building will be or has been at one of the following VP Buildings locations:

- Rainsville, AL.....VP Alabama Plant [Manufacture Only]
- Memphis, TN..... VP Headquarters..... [Design Only]
- Pine Bluff, AR..... VP Arkansas Service Center..... [Design and Manufacture]
- Turlock, CA.....VP California Service Center.....[Design and Manufacture]
- St. Joseph, MO..... VP Missouri Service Center.....[Design and Manufacture]
- Kernersville, NC...VP North Carolina Service Center.[Design and Manufacture]
- Van Wert, OH.....VP Ohio Service Center..... [Design Only]
- Evansville, WI.....VP Wisconsin Service Center.....[Design and Manufacture]
- Monterrey, Mx..... VP Mexico Service Center.....[Design and Manufacture]

Additional Structural Material may be fabricated and provided for use in a VP Buildings building by one of the following fabricators:

BAR JOISTS-

- SMI, Inc. Hope, AR
- SMI, Inc. Fallon, NV
- SMI, Inc. Starke, FL
- SMI, Inc. Iowa Falls, IA
- SMI, Inc. Cayce West Columbia, SC

- Hancock Salem, VA

- Canam Washington, MO

- Vulcraft Grapeland, TX
- Vulcraft Norfolk, NE
- Vulcraft Florence, SC
- Vulcraft Brigham City, UT

- ISP El Paso, TX

- Socar Florence, SC

- Quincy Quincy, FL

- New Millennium Building Systems Butler, IN

STRUCTURAL STEEL FABRICATION

- Addison Steel, Inc. Orlando, FL

- PKM Steel Service, Inc. Salina, KS

- Qualico Steel Co. Inc. Webb, AL

(This information is presented in compliance with VP Buildings' AISC Certification responsibilities.)

Varco Pruden Buildings, Inc.
WISCONSIN SERVICE CENTER
ENGINEERING GROUP

Date: 11/14/2005

To: Dennis Waters of PATCO

copy:

Fax: number of pages:

Copy fax:

WI Service Center

fax: 608-882-2370

e-mail: cwalker@vp.com

SUBJECT: W10501267 **Bio Processing**
Snow loadings

Dennis, please note the above subject job was designed in accordance with IBC 2003 building **code** as requested. IBC 2003 uses **ASCE 7-02** as the codes basis for calculating roof snow and drifting loads. This project was done based upon those required calculations **as** noted in the design loads and reactions package submitted.

I hope this answers **your** concerns.

If you have **any** further questions, please let me **know**.

