

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, if Any, Attached

BUILDING INSPECTION

PERMIT

PERMIT ISSUED
 Permit Number: 051808
JAN 12 2005
CITY OF PORTLAND

This is to certify that B & L PARTNERS LLC / Henry Sawyer
 has permission to Build a 60' x 200' Pre-engineered steel building
 AT 585 RIVERSIDE ST 306 B006001

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of the State of Oregon 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 services suspended in 24 HOUR NOTICE REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Craig Cass 12-19-05
 Health Dept. _____
 Appeal Board _____
 Other _____
 Department Name _____

Alvin C. ... 1/10/06
 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 No:	05-1808	Issue Date:	JAN 12 2005	Permit Issued:	306 B006001
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Location of Construction: 585 RIVERSIDE ST	Owner Name: B & L PARTNERS LLC	Owner Address: 277 MILTON RD	Phone:
Business Name:	Contractor Name: Harvey Sawyer	Contractor Address: 14 Deer Run Drive	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Commercial	Zone: I-M

Past Use: Vacant Land	Proposed Use: Commercial/ Build a 60 x 200' Pre-engineered steel Building	Permit Fee: \$1,716.00	Cost of Work: \$180,000.00	CEO District: 5
Proposed Project Description:		FIRE DEPT:	INSPECTION:	
		<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied SHELL ONLY w/ BATHS OFFICES + SEPARATION WALLS Signature: Greg Luss	Use Group: S1 Type: 2B (For view) 1/10/05 Signature: [Signature]	

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
Action:	<input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied
Signature:	Date:

Permit Taken By: Idobson	Date Applied For: 12/16/2005
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Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan # 2005-0223 Maj <input type="checkbox"/> Minor <input checked="" type="checkbox"/> MM Date: 1/12/05	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <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	

585 Riverside Bldg. C

DRAINAGE EASEMENT DEED

KNOW ALL PERSON BY THESE PRESENTS, that B & L PARTNERS, LLC, a Maine limited liability company with a place of business at 70 Bishop Street, Portland, Maine 04103, and a mailing address of 277 Milton Road, Rochester, NH 03868, for consideration paid, receipt whereof is hereby acknowledged, GRANTS to the **CITY OF PORTLAND**, a body politic and corporate located in Cumberland County, State of Maine, with warranty covenants, a drainage easement described as follows:

The right to perpetually enter at any and all times upon a portion of the property situated at 585 Riverside Street, Portland, in said County of Cumberland and State of Maine, said portion of the property being described in Schedule A attached hereto and incorporated herein by reference (the "Easement Area").

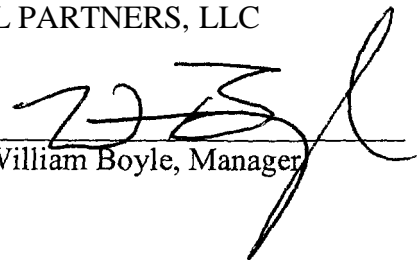
Meaning and intending to convey a drainage easement over a portion of the property conveyed to B & L Partners, LLC by deed of David Cave recorded in the Cumberland County Registry of Deeds in Book 20848, Page 82.

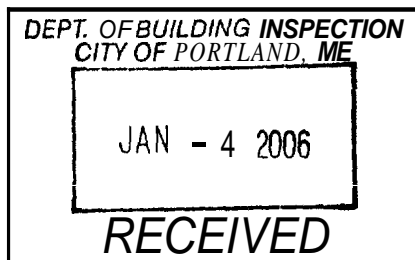
Said drainage easement is for the sole purpose of and conveying the right to construct, install and perpetually maintain through, under and across said Easement Area conduits or pipelines with all necessary fixtures and appurtenances for retaining and/or conveying stormwater, and to lay, relay, repair, maintain, clean and remove said stormwater pipelines or conduits upon or under said Easement Area, with all necessary fixtures and appurtenances, together with the right at all times to make connection with said conduits or pipelines to land adjoining said Easement Area by means of pipes or otherwise, to trim, cut down and remove trees, bushes, and other vegetation of all kinds, to remove debris and deposits of any kind and to alter and regrade the contours of said Easement Area to such extent as in the sole judgment of the grantee is necessary or appropriate for any of the above purposes; and to enter upon said Easement Area at any and all times for any of the foregoing purposes, reserving to the grantor and its successors and assigns the use and enjoyment of said Easement Area and for such purposes only as will in no way interfere temporarily or otherwise with the perpetual use thereof by the grantee, its successors and assigns for the purposes above mentioned. Apart from a roadway over the northerly portion of the Easement Area above the two existing 24" culverts to provide access to the remainder of the parcel, as shown on the Site Plan entitled "B&L Partners, LLC, Rainmaker Business Park, 585 Riverside Street, Portland, Maine" by Seveee & Maher Engineers, Inc., as revised through October 31, 2005, and approved on November 14, 2005 by the Portland Planning Authority, no building or any kind of permanent structure, including, but not limited to, walls and fences, shall be erected on said Easement Area by the grantor, its successors or assigns, and the grantor, its successors and assigns shall not remove earth from said drainage easement without the written permission of the grantee, its successors and assigns.

Dated: December 30, 2005

B & L PARTNERS, LLC

By:

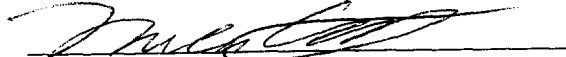

William Boyle, Manager



STATE OF MAINE
COUNTY OF CUMBERLAND

December 30, 2005

Personally appeared before me the above-named William Boyle, as Manager of B & L Partners, LLC, and acknowledged the foregoing to be his free act and deed in said capacity and the free act and deed of said limited liability company.



Notary Public / Maine Attorney at Law

Print Name: *MELISSA CHAPUT*

MELISSA CHAPUT

Notary Public, Maine *

My Commission Expires April 4, 2008

SCHEDULE A

A strip of land approximately thirty feet (30' +/-) in width at its northerly bound and approximately two hundred ninety feet (290' +/-) at its southerly bound, traversing the property conveyed to B & L Partners, LLC by deed of David Cave recorded in the Cumberland County Registry of Deeds in Book 20848, Page 82, at a point easterly of said Riverside Street a distance of between approximately one thousand feet (1,000' +/-) at the westerly edge of its northerly bound and approximately seven hundred forty-five feet (745' +/-) at the westerly edge of its southerly bound, and lying just easterly and southerly of the building and parking facilities to be constructed for so-called Building No. 2 as shown on the Site Plan entitled "B & L Partners, LLC, Rainmaker Business Park, 585 Riverside Street, Portland, Maine" by Seveee & Maher Engineers, Inc., as revised through October 31, 2005, Job No. 04019.00, Drawing File 04001 FINAL, and approved on November 14, 2005 by the Portland Planning Authority as a project entitled "Rainmaker Business Park, ID #2005-0223, CBL #3 12B004, Second Amendment to an Approved Plan Application - New Building #2."

STORMWATER DRAINAGE SYSTEM MAINTENANCE AGREEMENT

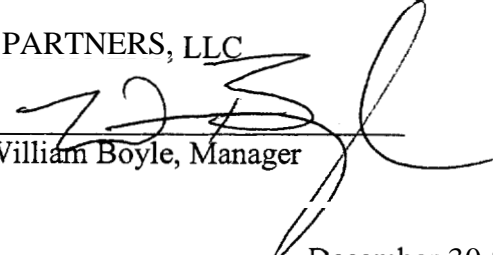
In consideration of the minor site plan approval granted by the Planning Authority of the City of Portland to a plan entitled "Site Plan, B & L Partners, LLC, Rainmaker Business Park, 585 Riverside Street, Portland, Maine" by Sevee & Maher Engineers, Inc., as revised through October 31, 2005, Job No. 04019.00, Drawing File 04001FINAL, and filed with the City of Portland, Department of Planning and Development, 389 Congress Street, Portland, Maine and pursuant to a condition thereof, B & L Partners, LLC, a Maine limited liability company with a place of business at 70 Bishop Street, Portland, Maine 04103, and a mailing address of 277 Milton Road, Rochester, NH 03868, the owner of the subject premises, does hereby agree, for itself, its successors and assigns (the "Owner") as follows:

That it will, at its own cost and expense and at all times in perpetuity, maintain in good repair and in properly working order the stormwater drainage system, as shown on said plan, including but not limited to a drainage culvert, detention pond and the outlet therefrom. Owner of the subject premises further agrees to periodically maintain said detention pond in accordance with best management practices and to keep a log detailing: 1) the date and nature of the maintenance performed; and 2) who performed said maintenance. Such log shall be made available for inspection by the City of Portland upon reasonable notice and request. Said agreement is for the benefit of said City of Portland and all persons in lawful possession of said premises and abutters thereto; further, that the said City of Portland, said persons in lawful possession and said abutter, or any of them, may enforce this Agreement by an action at law or in equity in any court of competent jurisdiction. Further, that after giving the Owner written notice and a reasonable time to perform, the said City of Portland, by its authorized agents or representatives, may, but is not obligated to, enter upon said premises to maintain, repair, or replace said stormwater drainage system, including but not limited to, treatment tank(s) and outlet(s) thereon, in the event of any failure or neglect thereof, the cost and expense thereof to be reimbursed in full to the said City of Portland by the Owner upon demand. This Agreement shall not confer upon the City of Portland or any other person the right to utilize said stormwater drainage system for public use or for the development of any other property, and the Owner shall bear no financial responsibility by virtue of this Agreement for enlarging the capacity of said surface water drainage system for any reason whatsoever.

This Agreement shall bind the undersigned only so long as it retains any interest in said premises, and shall run with the land and be binding upon its successors and assigns as their interests may from time to time appear.

Dated: December 30, 2005

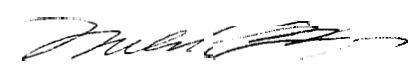
B&L PARTNERS, LLC

By: 
William Boyle, Manager

December 30, 2005

STATE OF MAINE
COUNTY OF CUMBERLAND

Personally appeared before me the above-named William Boyle, as Manager of B & L Partners, LLC, and acknowledged the foregoing to be his free act and deed in said capacity and the free act and deed of said limited liability company.


Notary Public / Maine Attorney at Law

Print Name: MELISSA CHAPUT

MELISSA CHAPUT
Notary Public, Maine

DATE: 11-16-04

SCOPE OF WORK
FOUNDATION DESIGN

FOR
B¹/₇ L CONSTRUCTION

PROJECT:
80' x 80' x 18'-0" - BLDG. A
20' x 24' x 19'-2" / 20'-0" - BLDG. B

STRUCTURAL
CALCULATIONS

306 B006

JOB NUMBER: 272241 PAGE 07 OF

PROJECT: _____

DESCRIPTION: _____

ISSUE:	1	A	REV.
BY:	ND		
DATE:	11-15-04		
CHKD:			
APPR:			

0.06 8" - D4-917 20'x24' x 19'-2" (L.S.)

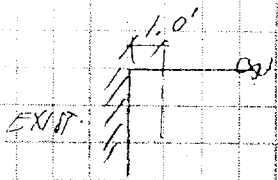
COLUMN REACTIONS

DL + LL

$0.06 + 0.7 = 0.76^k$
 $0.84 + 6.03 = 6.92^k$

DL + WL

$0.06 + 2.44 = 2.5^k$
 $0.84 + 6.36 + 2.0 = 7.52^k$



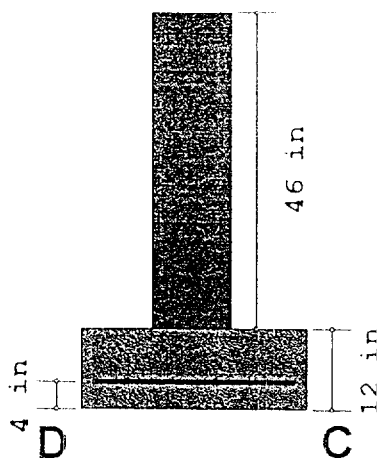
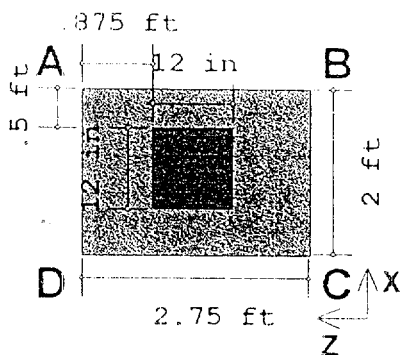
UPRIFT

2.5 x 2 x 0.15	0.75	FTNG
2.5 x 4 x 0.1	1.0	DIPT
10' x 10' x 0.416 x 0.15	6.25	SLAB S
20 x 4.5 x 0.66 x 0.15	3.91	GR REIN
	<u>16.96</u>	

$F.S. = 16.96 / 7.52 = 2.26 > 2.0$ OK

M.F. COLUMN (S.SLOPE)

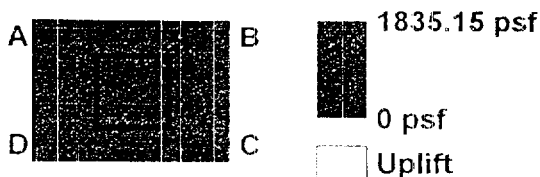
DT 1041
PG - 08
11-15-09



Allowable Soil Bearing : 2000 psf
Concrete Weight : 145 pcf
Concrete f_c : 2.5 ksi
Steel f_y : 60 ksi

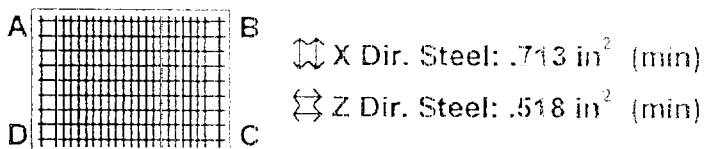
Service Soil Bearing

Maximum Bearing 1835.15 psf DL+LL
Max/Allowable Ratio .918



Flexure Design

Maximum Mu_{XX} / ϕ 2.469 k-ft ACI 9.1
Maximum Mu_{ZZ} / ϕ 1.108 k-ft ACI 9.1



X direction steel requires the following placement:

Region 1 (starts at A): 4.5 in Steel: .056 in²
Region 2 (middle) 24 in Steel: .6 in²
Region 3 (ends at B): 4.5 in Steel: .056 in²

Maximum Shear Check Ratios ($V_u / \phi V_c$)

Two Way (Punching) Shear NA
One Way Shear, X dir. cut .074 ACI 9.1
One Way Shear, Z dir. cut 0 ACI 9.1

Overtuning Moment Safety Factors (OTM SF)

OTM SF About X-X Axis NA DL+LL
OTM SF About Z-Z Axis NA DL+LL

Concrete Bearing (For Vertical Loads Only!)

Maximum B_u / ϕ 22.801 k ACI 9.1
Allowable B_c 612 k

Loads

	P (k)	V _x (k)	V _z (k)	M _x (k-ft)	M _z (k-ft)	Overburden (psf)
DL	.84					400
LL	6.1					

(4) # 5 E.W. A.S. = 1.24 in² > 0.71 in² ok

NOTE: 2' x 3' x 1' FTAC. USED

306 B006



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

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

FROM: _____

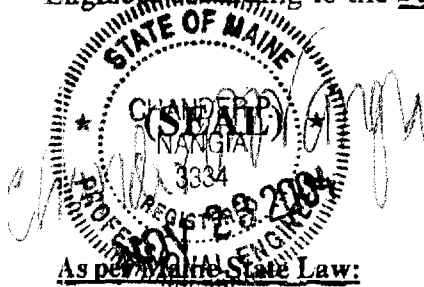
RE: Certificate of Design

DATE: _____

These plans and / or specifications covering construction work on:

585 Riverside St. 20x24 Loading Dock
80x80 Steel Building

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



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.

Signature: Chandar P. Nangia 11/23/2004

Title: Chief Engineer

Firm: CHANDER P NANGIA

Address: 7423 HOLLOW RIDGE DR
HOUSTON, TX 77095



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St , Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: _____

Address of Project: 585 Riverside St.

Nature of Project: 20 x 24 LOADING DOCK COVER
80 x 80 WAREHOUSE

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

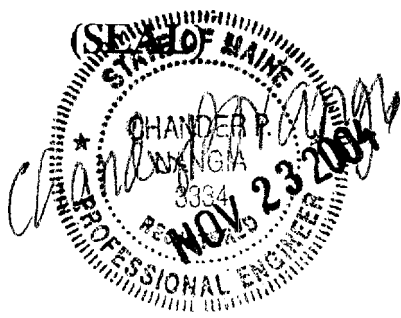
Signature: Chander P Nangia 11/23/2004

Title: Chief Engineer

Firm: CHANDER P NANGIA

Address: 7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095

Phone: 281-859-1421



FROM DESIGNER:

DATE:

Job Name:

Address of Construction:

2003 International Building Code
Construction project was designed according to the building code criteria listed below:

Building Code and Year Use Group Classification(s)

Type of Construction

Will the Structure have a Fire suppression system in accordance with Section 903.3.1 of the 2003 IRC NO
Is the Structure mixed use? YES If yes, separated or non separated (see Section 302.3) SEPARATED
Supervisory alarm system? Geotechnical/Soils report required? (See Section 1802.2) YES

STRUCTURAL DESIGN CALCULATIONS

Submitted for all structural members
(106.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
(1603)

Uniformly distributed floor live loads (1603.1.1, 1607)

Floor Area Use

Loads Shown

Wind loads (1603.1.4, 1609)

Design option utilized (1609.1.1, 1609.8)

Basic wind speed (1609.3)

Building category and wind importance factor, I_w (Table 1604.5, 1609.5)

Wind exposure category (1609.4)

Internal pressure coefficient (ASCE 7)

Component and cladding pressures (1609.1.1, 1609.8.2.2)

Main force wind pressures (1609.1.1, 1609.8.2.1)

Earthquake design data (1609.1.5, 1614 - 1629)

Design option utilized (1614.1)

Selamto use group (Category) (Table 1604.5, 1616.2)

Other loads

Elevation of structure

Flood hazard area (1612.3)

Flood loads (1603.1.8, 1612)

Design base shear (1617.4, 1617.5.1)

Analysis procedure (1616.8, 1617.5)

(Table 1617.8.2)

Response modification coefficient, R , and deflection amplification factor, C_d

(Table 1617.8.2)

Basic seismic-force-resisting system

Selamto design category (1516.3)

Sloped roof snowload, P_s (1608.4)

Roof thermal factor, C_t (Table 1608.3.2)

If $P_g > 10$ psf, snow load importance factor, I_s (Table 1604.5)

If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.3.1)

If $P_g > 10$ psf, flat-roof snow load, P_f (1608.3)

Ground snow load, P_g (1608.2)

Roof snow loads (1603.1.3, 1608)

Roof live loads (1603.1.2, 1607.11)

Live load reduction (1603.1.1, 1607.8, 1607.10)

Misc. loads (Table 1607.8, 1607.8.1, 1607.10, 1607.12, 1610)

Impact loads (1607.8)

Partition loads (1607.5)

Concentrated loads (1607.4)

BRAEMAR BUILDING SYSTEMS LTD.
025 WEST KENYON AVENUE, SUITE
ENGLEWOOD, COLORADO

STRUCTURAL DESIGN CALCULATIONS
FOR
B & L CONSTRUCTION
277 MILTON RD
ROCHESTER, NEW HAMPSHIRE

PROPOSED BUILDING

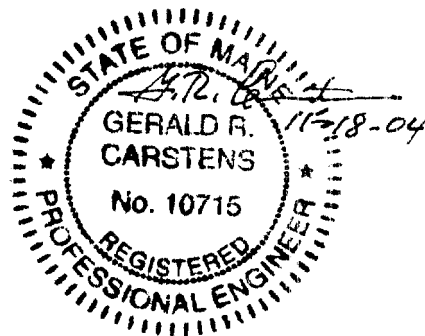
PORTLAND, MAINE
D4-917

BUILDING DATA

Width (ft) = 20.0
Length (ft) = 24.0
Eave Height (ft) = 17.7/ 19.2
Rof Slope (rise/12) = 0.90
Dead Load (psf) = 3.0
Live Load (psf) = 50.0
Collat. Load (psf) = 0.0
Snow Load (psf) = 5c.0
Wind Speed(mph) = 100.0
Wind Code = IBC 00
Closed/Open = P
Exposure = C
Importance - Wind = 1.00
Importance - Seismic. = 1.20
Seismic Coeff (Fa*Ss) = 0.05

Designer = 207-878-2652

11/09/04



SBM Associates, Inc.

ARCHITECT

RESIDENTIAL

COMMERCIAL

INDUSTRIAL

Fax # 874-8716

Date: 1/9/06

Number of pages including cover: 5

Project #: _____

Fax to: Mike Nugent

From: PETE SAWYER

Re: Proposed Building "C" 60x200
585 Riverside

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 copying 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:

EMERGENCY CHECK

THANKS PETE

Permit #
Permit Date



COMcheck Software Version 3.1 Release 1 Envelope Compliance Certificate

2001 IECC

Report Date: 01110106

Data filename: Untitled.cck

Section 1: Project Information

Project Title: Proposed Building "C" 60'x 200'

Construction Site:

B&L Business Park 585 Riverside Street
Portland, ME

Owner/Agent:

William Boyle
B&L Partners U C
277 Milton Road
Rochester, NH
207-831-1030

Designer/Contractor:

Harvey Sawyer
SBM Associates, Inc
14 Deer Run Drive
Gorham, ME 04038
207-839-2420
sbm111@maine.rr.com

Section 2: General Information

Building Location (for weather data): **Portland, Maine**
 Climate Zone: **15**
 Heating Degree Days (base 65 degrees F): **7378**
 Cooling Degree Days (base 65 degrees F): **268**
 Project Type: **New Construction**
 Glazing Area Percentage: **3%**

Building Type

Storage, Industrial and Commercial

Floor Area

12000

Section 3: Requirements Checklist

Envelope **PASSES**: Design 14% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Metal Roof without Thermal Blocks	12000	0.0	19.0	0.051	0.053
Exterior Wall 1: Metal Wall without Thermal Blocks	9900	0.0	19.0	0.050	0.075
Window 1: Vinyl Frame: Double Pane with Low-E, Clear, SHGC 0.32, PF 0.07	144	---	---	0.290	0.526
Door 1: Overhead	7128	---	---	0.670	0.122
Door 2: Solid	168	---	---	0.280	0.122
Door 3: Glass, Clear, SHGC 0.32, PF 0.05	168	---	---	0.360	0.526
Floor 1: Slab-On-Grade: Heated, Vertical 2 ft.	580	---	14.0	---	---

(a) Budget U-factors are used for software baseline calculations ONLY. and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.

- 3. Component R-values & U-factors labeled as certified.
- 4. Stair, elevator shaft vents, and other dampers integral to the building envelope are equipped with motorized dampers.
- 5. Cargo doors and loading dock doors are weather sealed.
- 6. Recessed lighting fixtures are: (i) Type IC rated and sealed or gasketed; or (ii) installed inside an appropriate air-tight assembly with a 0.5 inch clearance from combustible materials and with 3 inches clearance from insulation material.
- 7. Vapor retarder installed.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2001 IECC, Chapter 8, requirements in COMcheck Version 3.1 Release 1 and to comply with the mandatory requirements in the Requirements Checklist.

<i>Harvey E. Sawyer</i>	<i>Harvey E. Sawyer</i>	<i>1/9/06</i>
Principal Envelope Designer-Name	Signature	Date

Permit #
Permit Date



COMcheck Software Version 3.1 Release 1

Mechanical Compliance Certificate

2001 IECC

Report Date: 01/10/06

Data filename: Untitled.cck

Section 1: Project Information

Project Title: Proposed Building "C" 60' x 200

Construction Site:

B&L Business Park 585 Riverside Street
Portland, ME

Owner/Agent:

William Boyle
B&L Partners LLC
277 Milton Road
Rochester, NH
207-831-1030

Designer/Contractor:

Harvey Sawyer
SBM Associates, Inc
14 Deer Run Drive
Gorham, ME 04038
207-839-2420
sbm111@maine.rr.com

Section 2: General Information

Building Location (for weather data): **Portland, Maine**
Climate Zone: **15**
Heating Degree Days (base 65 degrees F): **7378**
Cooling Degree Days (base 65 degrees F): **268**
Project Type: **New Construction**

Section 3: Mechanical Systems List

Quantity System Type & Description

8 HVAC System 1: Heating: Unit Heater, Gas

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

1. Equipment minimum efficiency: Unit Heater (Gas): 80% Ec

Generic Requirements: Must be met by all systems to which the requirement is applicable:

1. Load calculations per 1997 ASHRAE Fundamentals
2. Plant equipment and system capacity no greater than needed to meet loads
- Exception: Standby equipment automatically off when primary system is operating
Exception: Multiple units controlled to sequence operation as a function of load
3. Minimum one temperature control device per system
4. Minimum one humidity control device per installed humidification/dehumidification system
5. Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock. 2-hour occupant override, 10-hour backup
Exception: Continuously operating zones
Exception: 2 kW demand or less, submit calculations
6. Outside-air source for ventilation: system capable of reducing OSA to required minimum
7. Hot water pipe insulation: 1 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
Exception: Piping within HVAC equipment
Exception: Fluid temperatures between 55 and 105 degrees F

Exception: Fluid not heated or cooled
Exception: Runouts <4 ft in length

- 8. Operation and maintenance manual provided to building owner
- 9. Stair and elevator shaft vents are equipped with motorized dampers

Section 5: Compliance Statement (Planned/Proposed)

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2001 IECC, Chapter 8, requirements in COMcheck Version 3.1 Release 1 and to comply with the mandatory requirements in the Requirements Checklist.

Harvey E. Sawyer
Harvey Sawyer
1/9/06
 Principal Mechanical Designer-Name Signature Date



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: RAINMAKER BUSINESS PARK / SBM ASSOCIATES

LOCATION: 585 RIVERSIDE STREET PORTLAND MAINE

PROJECT NO. 04-0509

TESTPIT <u>201</u>			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN FOREST DUFF WITH ORGANICS	
	2.0'	BROWN SILTY SAND WITH ORGANICS	
	4.5'	OLIVE SILTY CLAY $q_p = 7.0 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 4.5'	
COMPLETION DEPTH: <u>4.5'</u>		DEPTH TO WATER: <u>MODERATE SEEPAGE 0 - 2'</u> <u>NO CAVING OBSERVED</u>	

TESTPIT <u>202</u>			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.2'	DARK BROWN FOREST DUFF WITH ORGANICS	
	1.9'	BROWN SILT AND SAND	
	6.5'	OLIVE SILTY CLAY $q_p = 7.5 - 8.5 \text{ ksf}$ $q_p = 7.0 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 6.5'	
COMPLETION DEPTH: <u>6.5'</u>		DEPTH TO WATER: <u>MINOR SEEPAGE 0 - 1.9'</u> <u>NO CAVING OBSERVED</u>	

PROJECT/CLIENT: RAINMAKER BUSINESS PARK / SBM ASSOCIATES

LOCATION: 585 RIVERSIDE STREET PORTLAND MAINE

PROJECT NO: 04-0509

TEST PIT 200			
DATE: 8/4/2004		SURFACE ELEVATION: NO SURVEY	LOCATION: SEE SHEET 1
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN FOREST DUFF WITH ORGANICS	
	1.9'	BROWN TO ORANGE SILTY SAND	
	2.7'	BROWN SAND SOME SILT	
	5.0'	OLIVE SILTY CLAY $q_p = 9.0 \text{ ksf}$	
		$q_p = 6.0 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 5.0'	

COMPLETION DEPTH: 5.0'

DEPTH TO WATER: MINOR SEEPAGE 0 - 2'
NO CAVING OBSERVED

TEST PIT 204			
DATE: 8/4/2004		SURFACE ELEVATION: NO SURVEY	LOCATION: SEE SHEET 1
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.1'	DARK BROWN FOREST DUFF WITH ORGANICS	
		BROWN SILTY FINE TO MEDIUM SAND	
	5.0'	OLIVE SILTY CLAY $q_p = 9.0 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 5.0'	

DEPTH TO WATER: MODERATE SEEPAGE 0 - 2'
NO CAVING OBSERVED



TEST PIT LOGS

PROJECT/CLIENT: RAINMAKER BUSINESS PARK / SBM ASSOCIATES

LOCATION: 585 RIVERSIDE STREET PORTLAND MAINE

PROJECT NO. 04-0509

TEST PIT 301			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.9'	DARK BROWN FOREST DUFF WITH ORGANICS	
	1.4'	BROWN TO ORANGE SILTY SAND	
	2.3'	BROWN FINE TO MEDIUM SAND TRACE SILT	
	2.9'	BROWN SILTY SAND SOME CLAY	
	3.5'	BROWN MEDIUM SAND TRACE SILT	
	7.0'	OLIVE SILTY CLAY $q_p = 9.0$ ksf	
		BOTTOM OF EXPLORATION AT 7.0'	
COMPLETION DEPTH: <u>7.0'</u>		DEPTH TO WATER: <u>MINOR SEEPAGE 3 - 3.5'</u> <u>NO CAVING OBSERVED</u>	

TEST PIT 302			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.8'	DARK BROWN FOREST DUFF WITH ORGANICS	
	1.7'	BROWN SILT AND SAND SOME CLAY	
		OLIVE SILTY CLAY $q_p = 9.0^*$ ksf	
		$q_p = 9.0^*$ ksf	
	6.5'		
		BOTTOM OF EXPLORATION AT 6.5'	
COMPLETION DEPTH: <u>6.5'</u> COMPLETION DEPTH: <u>6.5'</u>		DEPTH TO WATER: <u>NO SEEPAGE OBSERVED</u> <u>NO CAVING OBSERVED</u>	



TEST PIT LOGS

PROJECT/CLIENT: RAINMAKER BUSINESS PARK / SBM ASSOCIATES
 LOCATION: 585 RIVERSIDE STREET PORTLAND MAINE

PROJECT NO. 04-0509

TEST PIT <u>303</u>			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.9'	DARK BROWN FOREST DUFF WITH ORGANICS	
	1.7'	BROWN TO ORANGE SILTY SAND	
	2.5'	BROWN FINE SAND TRACE SILT	
	3.0'	BROWN SILTY SAND TRACE CLAY	
	4.0'	BROWN MEDIUM SAND TRACE SILT	
		OLIVE SILTY CLAY $c_p = 8.0 - 8.5 \text{ksf}$	
	7.0'	BOTTOM OF EXPLORATION AT 7.0'	
COMPLETION DEPTH: <u>7.0'</u>		DEPTH TO WATER: <u>MODERATE SEEPAGE 3 - 4'</u> <u>NO CAVING OBSERVED</u>	

TEST PIT <u>304</u>			
DATE: <u>8/4/2004</u>		SURFACE ELEVATION: <u>NO SURVEY</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.9'	DARK BROWN FOREST DUFF	
	1.4'	BROWN SILTY SAND WITH ORGANICS	
		OLIVE SILTY CLAY $c_p = 9.0^* \text{ksf}$	
		$c_p = 9.0^* \text{ksf}$	
	6.0'	BOTTOM OF EXPLORATION AT 6.0'	
COMPLETION DEPTH: <u>6.0'</u>		DEPTH TO WATER: <u>NO SEEPAGE OBSERVED</u> <u>NO CAVING OBSERVED</u>	



KEY TO THE NOTES & SYMBOLS
Test Boring and Test Pit Explorations

All stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

- w - water content, percent (dry weight basis)
- q_u - unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined compressive test
- S_v - **field** vane shear strength, kips/sq. ft.
- L_v - lab vane shear strength, kips/sq. ft.
- q_p - unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
- O - organic content, percent (dry weight basis)
- W_L - liquid limit - Atterberg test
- W_P - plastic limit - Atterberg test
- WOH - advance by weight of hammer
- WOM - advance by weight of man
- WOR - advance by weight of rods
- HYD - advance by force of hydraulic piston on drill
- RQD - Rock Quality Designator - an index of the quality of a rock mass. **RQD is** computed from recovered core samples.
- γ_T - total soil weight
- γ_B - buoyant soil weight
- HSA - Hollow Stem Auger
- HW - 4 Casing
- NW - 3" Casing
- SS - split-spoon sampler

Description of Proportions:

- 0 to 5% TRACE
- 5 to 12% SOME
- 12 to 35% "Y"
- 35+% AND

REFUSAL: Test Boring Explorations: - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

International Accreditation Service, Inc.
CERTIFICATE OF ACCREDITATION

This is to signify that

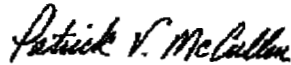
NCI BUILDING SYSTEMS L.P.

7301 FAIRVIEW
HOUSTON, TEXAS 77041

Fabricator Inspection Program FA-337

has demonstrated that its inplant inspection program for structural steel fabrication is in compliance with the International Accreditation Service, Inc., requirements for accreditation and is recognized under Section 1701.7 of the 1997 *Uniform Building Code*™ and Section 1704.2.2 of the 2003 *International Building Code*®, commencing July 1, 2005.

Fabrication inspection procedures covered by this certificate are conducted in accordance with the fabricator's approved quality control manual. Periodic plant inspections are conducted by Bucher, Willis & Ratliff Corporation (AA-586), at 7301 Fairview, Houston, Texas, to monitor the fabricator's quality system. Accreditation is limited to the specified inspections related to the fabrication processes and procedures only. Accreditation does not cover the product, or the design or performance characteristics of the fabricated product.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org For current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 08/03/2005

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NO. 734 P 4

003/003

12/23/2005 FRI 8:43 FAX 303 788 9996 BRAEMAR

BRAEMAR Building Systems

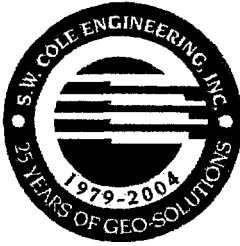
Date: 12/23/05

To: Portland Building Department
Mike Nugent
Phone: 207-874-8730
Fax: 207-756-8090

From: Braemar Building System
Dave Fax
Phone: 888-480-5552
Fax: 303-788-9996

Pages: 3 including this cover page

Subject: Here is the ICBO certification and the
AISC Category MB certification



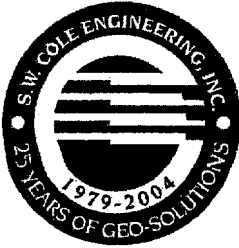
04-0509
August 31, 2004

draining, non-frost susceptible gravelly sand to prevent potentially adverse adfreezing and frost thrust issues and to promote drainage.

We recommend that excavation to subgrade be completed with a smooth-edged bucket to preclude disturbance of the olive silty clay anticipated at footing grade. We recommend that footing subgrades be overexcavated by at least 6 inches for installation of a working mat of 3/4-inch crushed stone overlying a geotextile filter fabric. The crushed stone working mat will help provide a stable surface for foundation construction over the moisture sensitive native clays and a media to sump and pump for excavation dewatering. If subgrade soils become soft, wet or disturbed during construction, we recommend that the disturbed soils be overexcavated and replaced with compacted crushed stone placed over a geotextile filter fabric. Alternatively, footing subgrade may be protected with 6 inches of compacted crushed gravel in place of the crushed stone and filter fabric mat. S.W. COLE ENGINEERING, INC. is available to observe subgrades to determine that our recommendations have been properly interpreted prior to placement of the spread footings.

For spread footings founded on properly prepared subgrades, we recommend an allowable soils bearing pressure of 2.0 ksf with a base friction factor of 0.35 for foundation design. Foundations exposed to freezing temperatures must be placed at least 4.5 feet below exterior finish grades in order to provide frost protection. We recommend that a perimeter underdrain be installed at footing grade. The underdrain must have a gravity outlet.

We recommend that on-grade floor slabs in heated spaces be underlain with at least 12 inches of compacted crushed gravel meeting the requirements of MDOT Standard Specification 703.06 Type D Gravel modified to maximum aggregate size of 4 inches. We recommend a vapor retarder be installed beneath on-grade slabs with moisture sensitive flooring and that on-grade floor slabs be designed with control joints to control shrinkage cracking.



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S.W.COLE ENGINEERING, **INC.** is available to provide geotechnical observations and testing of soil, concrete, asphalt and structural steel construction materials during construction if necessary.

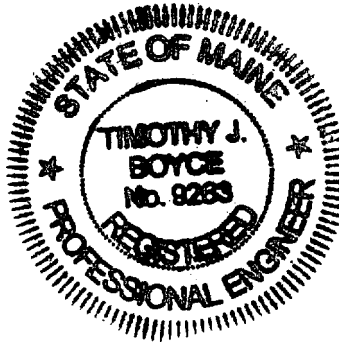
CLOSURE

We trust this letter meets your current needs. If you have any questions or require additional assistance, please **do** not hesitate to contact us.

Sincerely,

S.W.COLE ENGINEERING, INC.

Timothy J. Boyce, P.E.
Senior Geotechnical Engineer



Attachment A Limitations

This report has been prepared for the exclusive use of SBM Associates for specific application to the Proposed Building No.1 and Building No.2 on the Rainmaker Business Park at 585 Riverside Street in Portland, Maine as described herein. SBM Associates limited our services to an assessment of soil bearing capacity only and a deeper soils investigation to evaluate settlement and other geotechnical considerations was specifically excluded by SBM Associates. SBM Associates has agreed to protect and hold harmless S.W.COLE ENGINEERING, INC. from any and all claims, including third-party claims, for damages or consequential damages due to underlying soil conditions including but not limited to post-construction settlement. S.W.COLE ENGINEERING, INC. has endeavored to conduct the work in accordance with generally accepted soil and foundation engineering practices. No other warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples. Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

The analyses performed during this investigation and recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

S.W.COLE ENGINEERING, INC.'s scope of work has not included the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing or proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S.W.COLE ENGINEERING, INC. should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless the changes are reviewed by S.W.COLE ENGINEERING, INC.

Statement of Special Inspections

Project: B & L Business Park - Building "C" 60' x 200'

Location: 585 Riverside Street Portland, Maine

Owner: B & L Partners

Design Professional in Responsible Charge: Harvey E Sawyer III

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

- X Structural Mechanical/Electrical/Plumbing
X Architectural Other: _____

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

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

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

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

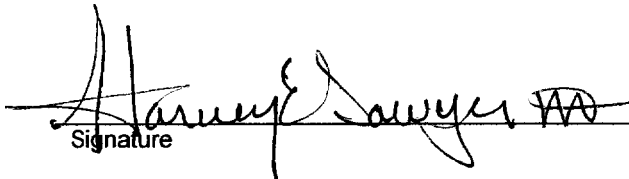
Interim Report Frequency:

or per attached schedule.

Prepared by:

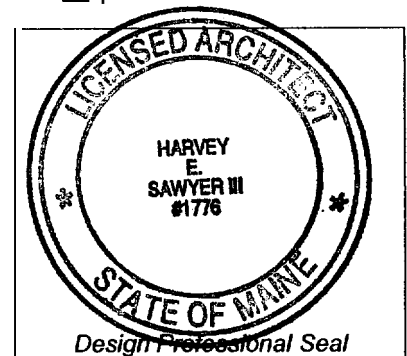
Harvey E. Sawyer III

(type or print name)


Signature

12/12/05

Date



Owner's Authorization:

Building Official's Acceptance:

Signature

Date

Signature

Date

Schedule of Inspection and Testing Agencies

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input type="checkbox"/> Wood Construction |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input checked="" type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Special Cases |

Special inspection Agencies	Firm	Address, Telephone, e-mail
1. Special inspection Coordinator Harvey E Sawyer III	SBM Associates, Inc.	14 Deer Run Drive Gorham, Maine 04038 207-839-2420 sbml1l@maine.rr.com
2. Inspector Elite Inspection Services, Inc.	Elite Inspection Services, Inc.	220 Industrial Way Unit 1 Portland, Maine 207-797-2496
3. Inspector		
4. Testing Agency S.W. Cole Engineering, inc.	S.W. Cole Engineering, Inc.	286 Portland Road Gray, Maine 0439-9586 207-657-2866 inforgray@swcole.com
5. Testing Agency		
6. Other Mechanical, Electrical & Piping Design Build	To Be Determined By Owner	

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

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category **C**
 Quality Assurance Plan Required (Y/N) **YES** 1705.1 **(1)**

Description of seismic force resisting system and designated seismic systems:

As provided by Braemar Building Systems for description for system

STEEL RIGID FRAMES AND CROSS BRACING
 (Moment resisting frames) (Ordinary braced frames)

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) **100 mph**
 Wind Exposure Category **C**
 Quality Assurance Plan Required (Y/N) **NO** 1706.1.1(2)

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

As provided by Braemar Building Systems for description for system

STEEL RIGID FRAMES AND CROSS BRACING

Statement of Responsibility

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

BRAEMAR RESPONSIBLE FOR STEEL BUILDING SYSTEM ONLY

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category	C
Quality Assurance Plan Required (Y/N)	YES

Description of seismic force resisting system and designated seismic systems:

See Quality Assurance Plan as provided by Braemar Building Systems for description for system

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)	100 mph
Wind Exposure Category	C
Quality Assurance Plan Required (Y/N)	NO 1706.1.1(2)

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

See Quality Assurance Plan as provided by Braemar Building Systems for description for system

Statement of Responsibility

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

See attached letter from B & L Partners, L.L.C.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency **Number** on the Schedule.

PEISE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PEIGE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWSIAISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.
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International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification

EDI-EIFS	EIFS Third Party Inspector
----------	----------------------------

Other

Item	Agency # 4	Scope
1. Shallow Foundations	PE/GE	<p><i>inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.</i></p> <p><i>inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill</i></p>
2. Controlled Structural Fill	PE/GE	<p><i>Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.</i></p> <p><i>Inspect placement, lift thickness and compaction of controlled fill.</i></p> <p><i>Test density of each lift of fill by nuclear methods (ASTM D2922)</i></p> <p><i>Verify extent and slope of fill placement.</i></p>
3. Deep Foundations N/A	PE/GE	<p><i>Inspect and log pile driving operations. Record pile driving resistance and verify compliance with driving criteria.</i></p> <p><i>Inspect piles for damage from driving and plumbness.</i></p> <p><i>Verify pile size, length and accessories.</i></p> <p><i>Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability of end bearing strata.</i></p>
4. Load Testing		
5. Other:		

Item	Agency #	Scope
1. Mix Design	4 ACI-CCI ICC-RCSI	<i>Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.</i>
2. Material Certification		
3. Reinforcement Installation	ACI-CCI ICC-RCSI	<i>Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters</i>
4. Post-Tensioning Operations N/A	ICC-PCSI	<i>Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations.</i>
5. Welding of Reinforcing N/A	AWS-CWI	<i>Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.</i>
6. Anchor Rods		<i>Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.</i>
7. Concrete Placement	ACI-CCI ICC-RCSI	<i>Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.</i>
8. Sampling and Testing of Concrete	ACI-CFTT ACI-STT	<i>Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).</i>
9. Curing and Protection	ACI-CCI ICC-RCSI	<i>Inspect curing, cold weather protection and hot weather protection procedures.</i>
10. Other:		

Item	Agency # 2	Scope
1. Fabricator Certification/ Quality Control Procedures <input type="checkbox"/> Fabricator Exempt	AWS/AISC- SSI ICC-sWSI	Review shopfabrication and quality control procedures.
2. Material Certification	AWS/AISC- SSI ICC-sWSI	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes
3. Open Web Steel Joists		Inspect installation, field welding and bridging of joists.
4. Bolting	AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip-critical connections.
5. Welding	AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds.
6. Shear Connectors	AWS/AISC- SSI ICC-SWSI	Inspect size, number, positioning and welding of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees.
7. Structural Details	PE/SE	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.
8. Metal Deck	AWS-CWI	Inspect welding and side-lap fastening of metal roof and floor deck
9. Other:		

Cold-Formed Steel Framing

Item	Agency # 2	Scope
1. Member Sizes		
2. Material Thickness		
3. Material Properties		
4. Mechanical Connections		
5. Welding		
6. Framing Details		
7. Trusses		
8. Permanent Truss Bracing		
9. Other:		

Item	Agency # 6	Scope
1. Smoke Control		
2. Mechanical, HVAC & Piping		
3. Electrical System		
4. Other:		

December 12, 2005

Michael Nugent
Inspections Service Manager
City of Portland, Maine

Re: B & L Business **Park**
Building "C" 60' x 200'
585 Riverside Street
Portland, Maine

051808

Dear Mike,

Please accept the enclosed documents for Building Permit submission for the above-stated project.

We believe the submission to be complete at this time and respectfully request a building construction permit for this project. As you will note, the Mechanical, Electrical and Plumbing is a design Build item and is not included under this permit.

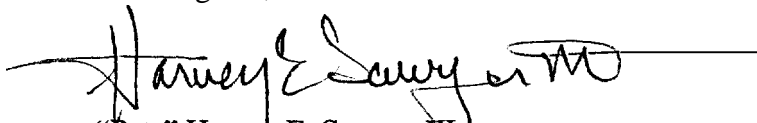
We understand that the IBC 2003 requires the Special Inspections under Section 1704 of the Code. We are anxious to work with you and your department on this matter and would like to expedite the process as much as possible.

The schedule(s) for the Special Inspections will be based on those shown in section 1704.4 that are pertinent to this project.

Please call **this** office with any questions or comments on this Building Permit submission.

Thank you for your prompt attention to this matter.

Best Regards,


"Pete" Harvey E. Sawyer III

CONTENTS OF PERMIT SUBMISSION

Commercial Building Permit Application:

- o Application Dated December 12, 2005

BRAEMAR Building Systems:

1. Manufacturing General Notes
2. Structural Design Calculations
3. Building Plans (11" x 17") Larger scale not provided.
4. Certificate of Design – Structural (Metal Building)

City of Portland Building Code Certificates:

1. Accessibility Certificate – Architectural
2. Certificate of Design – Structural – Foundations

Building Plans By Local Architect and Engineer:

Cover Sheet

- S-1 Foundation Plan and Details
- S-2 Foundation Details
- A-1 Floor Plan and Details
- A-2** Elevations and Details
- A-3** Building Sections and Details
- A-4 Door and Room Finish Schedules and Details

Geotechnical Reports: (S. W. Cole Engineering, Inc.)

- Bearing Capacity Assessment Report

Statement of Special Inspections forms:

1. Cover Letter
2. Schedule of Inspection and Testing Agencies
3. Quality Assurance Plan - Braemar Building Systems
4. Quality Assurance Plan – Statement of Responsibility for Construction – B&L Contractors
5. Qualifications of Inspectors and Testing Technicians
6. Soils and Foundations
7. Cast-in-place Concrete
8. Structural Steel
9. Cold Formed Steel
10. Mechanical & Electrical Systems – To be determined