

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

## PERMIT

Permit Number 060618

Please Read Application And Notes, If Any, Attached

This is to certify that 1039 RIVERSIDE LLC / Bisco Construction, Inc.

has permission to 7,500 sf pre-engineered steel building (steel only) - Block # 3

AT 1039 RIVERSIDE ST

331 A001001

PERMIT ISSUED

JUN - 6 2006

provided that the person or persons firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of this State 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 procured before this building or part thereof is occupied or closed-in. 24 HOUR NOTICE IS REQUIRED.

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

### OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_  
Health Dept. \_\_\_\_\_  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_  
DepartmentName

*[Signature]* 6/6/06  
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: 06-0618	Issue Date: <b>JUN - 6 2006</b>	CRI: 31 A00 001
<b>PERMIT ISSUED</b>		
Owner Address: 340 FORE ST	Phone:	
Contractor Address: 16 Danielle Drive Windham	Phone: 2078929800	
Permit Type: Alterations - Commercial	<b>CITY OF PORTLAND</b>	
	Zone: I-1h	

<b>Location of Construction:</b> 1039 RIVERSIDE ST	<b>Owner Name:</b> 1039 RIVERSIDE LLC
<b>Business Name:</b>	<b>Contractor Name:</b> Biskup Construction, Inc.
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>

<b>Past Use:</b> Commercial	<b>Proposed Use:</b> Commercial 7,500 sf pre-engineered steel building (shell only) <i>Bldg # 3</i>
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**Proposed Project Description:**  
7,500sf pre-engineered steel building (shell only)

<b>Permit Fee:</b> \$1,461.00	<b>Cost of Work:</b> \$160,000.00	<b>CEO District:</b> 5
<b>FIRE DEPT:</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>See Conditions</i>	<b>INSPECTION:</b> Use Group: <i>Self</i> Type: <i>SB ONLY</i> <i>6/6/06</i> Signature: <i>[Signature]</i>	
<b>PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)</b>		
Action <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

<b>Permit Taken By:</b> dmartin	<b>Date Applied For:</b> <i>04/06/2006</i>	<b>Zoning Approval</b>
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<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</li> </ol>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> <i>sic with conditions</i> Date: <i>5/15/06</i>	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <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

**City of Portland, Maine - Building or Use Permit**

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

Permit No: 06-0618	Date Applied For: 04/26/2006	CBL: 331 AOOIOOI
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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: Biskup Construction, Inc.	Contractor Address: 16 Danielle Drive Windham	Phone (207) 892-9800
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Commercial 7,500 sf pre-engineered steel building (shell only)-  
Bldg #3

7,500 sf pre-engineered steel building (shell only)

**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Marge Schmuckal      **Approval Date:** 05/15/2006**Note:** BLDG #3**Ok to Issue:** 

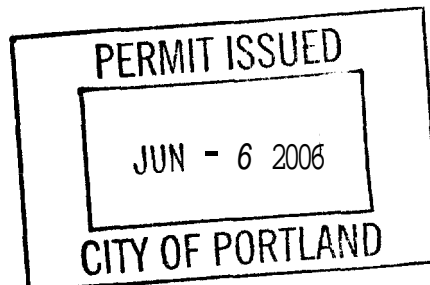
- 1) Separate permits are required for tenant fit up and to determine use and certificates of occupancy PRIOR to tenant occupancy.
- 2) Separate permits shall be required for any new signage.
- 3) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Mike Nugent      **Approval Date:** 06/06/2006**Note:****Ok to Issue:** 

- 1) Foundation and shell only-- A separate set of plans and all required technical submissions, prepared by a registered design professional must be filed and a permit is required for the establishment of a use of the structure.

**Dept:** Fire      **Status:** Approved with Conditions      **Reviewer:** Cptn Greg Cass      **Approval Date:** 05/22/2006**Note:****Ok to Issue:** 

- 1) Life Safety requirements shall be based on occupancy @ tenant fit-up.





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

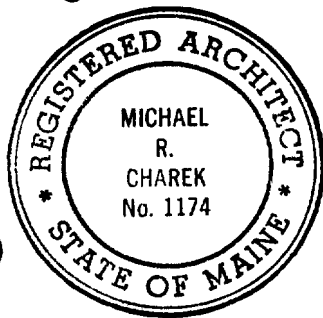
ACCESSIBILITY CERTIFICATE

Designer: Michael R. Charek

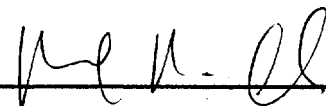
Address of Project: 1039 Riverside Street

Nature of Project: 7,500 sf pre-engineered steel building,  
shell only

The undersigned, to the best of his knowledge, agrees that  
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**.



(SEAL)

Signature: 

Title: Principal

Firm: Michael Charek Architects

Address: 25 Hartley Street

Portland, ME 04103

Phone: 207-761-0556

**NOTE: If this project is a new Multi Family Structure of 4 Units or more, this project must also be designed in compliance with the Federal Fair Housing Act. On a separate submission, please explain in narrative form the method of compliance.**

Applicant: 1039 Riverside LLC / Bishop Construction Date: 5/15/06

Address: 1039 Riverside St - Bldg # C-B-L: 331-A 001

CHECK-LIST AGAINST ZONING ORDINANCE

Date - Existing Dev - This is one Bldg out of many on the lot # 06-0618

Zone Location - T-1M

Interior or corner lot -

Proposed Use/Work - Construct Bldg # 3 - 7500 sq ft - 75' x 100'

Sevage Disposal - city ~~shell only~~ - No tenants yes

Lot Street Frontage - 60' min - 606' given

Front Yard - 1' for each 1' of height - 21.5' min - 117' scaled

Rear Yard - 1' for each 1' of height - 21.5' min - 100' + shown

Side Yard - 1' for each 1' of height - 21.5' min - 209' scaled

Projections -

Width of Lot - N/A

Height - 75' max - 21.5' to highest

Lot Area - No min - 18.68 Acres with Addition of

Lot Coverage/ Impervious Surface - 75% for entire lot req - 59% Actual given

Area per Family - N/A

Off-street Parking - Not at yet - 18 Spaces in front of Bldg - more on site

Loading Bays - 2 loading bays shown - 1 req

Site Plan - # 2005-0152

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - Panel 1B - Zone C

10' min pavement setbacks - 25' shown



**AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.**

**AISC Fabricator Certification Program**

**Package Industries, Inc.**

**Sutton, MA**

*Has met the requirements for certification in the following programs*

**Category MB, Metal Building Systems**



**May 2006**

*Alvaro J. Perez*

President, American Institute of Steel Construction, Inc.

Certification valid through the last day of this month



**AISC CATEGORY MB  
METAL BUILDING SYSTEMS  
QUALITY CERTIFICATION PROGRAM**

Manufacturer: Package Industries  
Location: Sutton, Massachusetts  
Year: 2006

Facility Type: Design and Fabrication  
Audit Type: Renewal  
Auditor: Dennis Johnson  
Audit Date: April 13, 2006

**GENERAL AREAS OF CONCERN"**

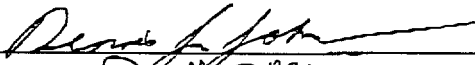
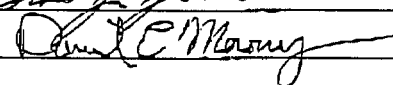
- Corporate Policies
- Org. Charts/Position Descript./ Exp. Levels
- Welder Qualifications
- Welding Documentation
- Subcontract Services
- Order Instructions
- Order Documentatinn
- Order Screening
- Letter of Certification
- Design Procedures
- Project Audit Design Codes & Stds. Compliance
- Erection & Fabrication Dwgs.
- Materials Purchasing Documentation
- Materials Receiving Documentation
- Quality Assurance Procedures
- Quality Assurance Documentation
- Structural Welding
- Structural Fabrication
- Receiving Practices
- Loading & Handling
- Subcontract Structural Components

*\*See final report comments for specific deficiencies.*

**PRELIMINARY AUDIT FINDINGS:**

Pass     Fail     Pending further review.

Audit materials requiring additional review: \_\_\_\_\_ \*

Auditor Signature:   
Manufacturer's Rep. Signature: 

Date: 04/13/06

Date: 04/13/06

**City of Portland, Maine - Building or Use Permit**

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

<b>Permit No:</b> 06-0618	<b>Date Applied For:</b> 04/26/2006	<b>CBL:</b> 331 AOOIOOI
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<b>Business Name:</b>	<b>Contractor Name:</b> Biskup Construction, Inc.	<b>Contractor Address:</b> 16 Danielle Drive Windham	<b>Phone:</b> (207) 892-9800
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Alterations - Commercial	

<b>Proposed Use:</b> Commercial 7,500 sf pre-engineered steel building (shell only)- Bldg #3	<b>Proposed Project Description:</b> 7,500sf pre-engineered steel building (shell only)
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**Comments:**  
5/25/2006-mjn: Have Seismic question, engineer sending the calcs .....



**STATEMENT OF SPECIAL  
CONSTRUCTION MONITORING**

**PROJECT: Second Tee Business Park Building #3  
Portland, Maine**

**PERMIT APPLICANT: Jim Biskup  
APPLICANT'S ADDRESS: 14 Danielle Dr, Windham, ME 04062**

**STRUCTURAL ENGINEER OF RECORD**  
**Foundations: Associated Design Partners, Inc**  
**Pre-Fabricated Steel Building: Package Industries, Inc.**

**CONTRACTOR: Biskup Construction**

This Statement of Special Construction Monitoring is submitted as a condition for building permit issuance in accordance with Section 1704.0 of the 2003 International Building Code. It includes the Schedule of Special Construction Monitoring and Testing as applicable to this project. **Also** included is a listing of agents and other approved agencies to be retained for conducting the monitoring and testing applicable to this project.

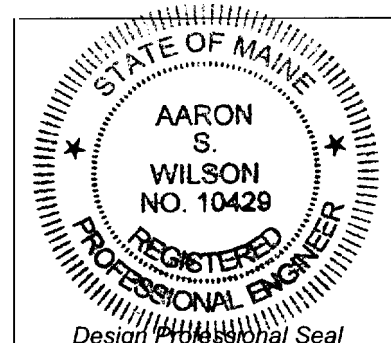
The Special Construction Monitoring Coordinator shall keep records of all observations listed herein, and shall furnish field reports to the Registered Design Professional of Record. **All** discrepancies shall be brought to the immediate attention of the Contractor for correction, and to the Registered Design Professional of Record. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Registered Design Professional of Record. Interim reports shall be submitted to the Registered Design Professional of Record monthly, unless more frequent submissions are requested.

The Special Construction Monitoring program does not relieve the Contractor of his or her responsibilities. Job site safety is solely the responsibility of the Contractor. Materials and activities covered under the monitoring schedule are not to include the Contractor's equipment and methods used to erect or install the materials listed.

**Prepared by:**

Aaron S. Wilson  
(type or print name)

Sig  Date 4/26/06



Owner's Authorization:

Building Official's Acceptance:

Signature

Date

Signature

Date

**SPECIAL CONSTRUCTION MONITORING AGENTS**

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

- Soils and Foundations
- Cast-in-Place Concrete Retaining walls
- Precast Concrete
- Masonry
- Structural Steel
- Cold-Formed Steel Framing
- Spray Fire Resistant Material
- Wood Construction
- Exterior Insulation and Finish System
- Mechanical & Electrical Systems
- Architectural Systems
- Special Cases

<b>AGENT</b>	<b>FIRM</b>	<b>CONTACT INFORMATION</b>
1. Engineer of Record (Foundations& L.G. Steel)	<b>Associated Design Partners</b>	<b>80 Leighton Rd Falmouth ME 04105 Ph: 878-1751</b>
2. Special Construction Monitoring Coordinator	<b>Associated Design Partners</b>	<b>80 Leighton Rd Falmouth ME 04105 Ph: 878-1751</b>
3. Field Monitor	<b>S.W. Cole</b>	<b>286 Portland Road Gray, ME 04039-9586 P: (207) 657.2866</b>
4. Testing Agency	<b>S.W. Cole</b>	<b>286 Portland Road Gray, ME 04039-9586 P: (207) 657.2866</b>
5. Engineer of Record (Pre-Fab Metal Building)	<b>Package Industries, Inc</b>	<b>15 Harback Rd Sutton, MA 01590 PH. (508) 865-5871</b>

Note: The testing agency 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 FOR LATERAL SYSTEMS

### Quality Assurance for Seismic Requirements

Seismic Design Category *B*  
Quality Assurance Plan Required (Y/N) *N*

If seismic design category C, and plan is not required, explain (see exceptions to 1705.1)

Description of seismic force resisting system and designated seismic systems:  
*Ordinary Steel Moment Frames, Ordinary Concentric Steel Braced Frames.*

### Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) *94MPH*  
Quality Assurance Plan Required (Y/N) *N*

Description of wind force resisting system and designated wind resisting components:  
*Ordinary Steel Moment Frames, Ordinary Concentric Steel Braced Frames.*

### Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility in accordance with section 1705.3, and 1706.3 of the 2003 IBC code.

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.

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

#### **American Concrete Institute (ACI) Certification**

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

#### **American Welding Society (AWS) Certification**

<b>AWS-CWI</b>	Certified Welding Inspector
<b>AWS/AISC-SSI</b>	Certified Structural Steel Inspector

#### **American Society of Non-Destructive Testing (ASNT) Certification**

<b>ASNT</b>	Non-Destructive Testing Technician – Level II or III.
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#### **International Code Council (ICC) Certification**

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

#### **National Institute for Certification in Engineering Technologies (NICET)**

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

#### **Exterior Design Institute (EDI) Certification**

<b>EDI-EIFS</b>	EIFS Third Party Inspector
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**TABLE 1 – SCHEDULE OF SPECIAL CONSTRUCTION MONITORING**

MATERIAL / ACTIVITY	EXTENT of MONITORING (Continuous, Periodic, Other, Exempt, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
<b>1704.3 STEEL CONSTRUCTION</b>					
1. Material Verification of high strength bolts, nuts, and washers.	a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Periodic	3		
	b. Manufacturers Certificate of Compliance required.	Other	5		
2. Inspection of High – Strength Bolting	a. Bearing type connections	Periodic	3		
	b. Slip – critical connections	None			
3. Material Verification of structural steel	a. Identification marking to conform to ASTM standards specified in the contract documents.	Exempt			
	b. Manufacturers certified mill test Reports.	Exempt	5		
4. Material Verification of weld filler materials:	a. Identification marking to conform to AWS standards specified in the contract documents.	Exempt			
	b. Manufacturers Certificate of Compliance required.	Exempt			
5. Inspection of Welding – Structural Steel	a. Single Pass fillet welds < 5/16"	Exempt			
	b. Roof deck welds	Periodic	3		
6. Inspection of Steel Frame Joint details for compliance with approved documents.	a. Bracing / moment frame connections	Periodic	3		
	b. Member locations	Periodic	3		
	c. Application of joint details at each connection.	Periodic	3		

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

MATERIAL/ACTIVITY	EXTENT of INSPECTION (Continuous, Periodic, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
<b>1704.4 CONCRETE CONSTRUCTION</b>					
1. Inspection of reinforcing steel, including placement.	Periodic		3		
2. Inspection of reinforcing steel welding	None	No welding of rebar specified in contract drawings			
3. Inspect bolts embedded into concrete prior to and during placement of concrete where allowable loads have been increased.	None	Allowable loads have not been increased for lateral loads.			
4. Verify concrete mix design(s)	Periodic	SER to review and approve mix design(s) prior to delivery. Field agent to verify delivery ticket matches approved mix design.	1,3		
5. Sample fresh concrete for strength tests, perform slump and air content tests, and determine temperature of concrete.	Continuous		E,4		
6. Inspection of concrete placement techniques.	Continuous		E		
7. Inspection for specified curing equipment and techniques.	Periodic		3		
<b>1704.5 MASONRY CONSTRUCTION - Level 1 Special Inspection for non-essential facility – 1704.5.2</b>					
1. As Masonry Construction begins, the following shall be verified to ensure conformance	a. Proportions of site-prepared mortar	None			
	b. Construction of mortar joints	None			
	c. Location of reinforcement	None			
	d. Pre-stressing technique	None	No pre-stressing in building		
	e. Grade and size of pre-stressing tendons.	None	No pre-stressing in building		
2. The Inspection program shall verify the following:	None				
a. Size and location of structural elements.	None				

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

MATERIAL/ACTIVITY	EXTENT of INSPECTION (Continuous, Periodic, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
b. Type, size, and location of embedded anchors.	None				
c. Size, grade, and type of reinforcing	None				
<b>1704.5 MASONRY CONSTRUCTION - Level 1 Special Inspection for non-essential facility – 1704.5.2</b>					
2. The Inspection program shall verify the following, cont:	None				
d. welding of reinforcing bars	None				
e. Protection of Masonry during cold weather (temp. below 40 deg F.)	None				
f. Application and measurement of pre-stressing reinforcement	None	No pre-stressing in building			
a. Grout space is clean	None				
b. Placement of reinforcement	None				
c. Proportions of site-prepared grout	None				
d. Construction of mortar joints	None				
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	None				
5. Preparation of any grout specimens, mortar specimens and/or prisms shall be observed	None				
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	None				
<b>1704.6 WOOD CONSTRUCTION</b>					
1. Horizontal Diaphragms and Vertical Shearwalls	None				
a. Inspect sheathing size, grade, and thickness for conformance with construction documents.	None				
b. Inspect sheathing fastener size and pattern for conformance with construction documents.	None				
c. Verify attachment to supporting elements is per contract documents.	None				
2. Wood truss fabricator certification / quality control procedures	None				
Verify shop fabrication and quality control procedures for wood truss plant.	None				
3. Material Grading	None				
Verify material grading for sawn lumber for compliance with construction documents. Verify manufactured lumber documents. Verify manufactured lumber (LVL'S, PSL's) for conformance with	None				

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

MATERIAL/ACTIVITY		EXTENT of INSPECTION (Continuous, Periodic, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
construction documents						
<b>1704.6 WOOD CONSTRUCTION</b>						
4. Wood Connections	Verify that connections are made as shown in the contract documents. For connections not specifically detailed, verify conformance with IBC 2003 Ch. 23	None				
5. Framing	Verify that framing is installed in accordance with construction documents.	None				
6. Pre-Fabricated Wood Trusses	Inspect truss and all bracing installation. Bracing to be installed per fabricator's recommendations and BCSI 1-03	None				
<b>1704.7 SOILS</b>						
1. Site Preparation	Inspect preparation of site for conformance with Geotechnical recommendations prior to placement of prepared fill.	Periodic		3		
2. Fill Placement	During Fill Placement verify that material and lift thickness comply with approved Geotechnical report.	Periodic		3		
3. In-Place Soil Density	Verify compliance of in-place compacted dry density with approved Geotechnical report.	Periodic		3		
<b>1704.7 PILE FOUNDATIONS</b>						
	Record installation and testing of procedures of each pile. Submit reports to building official and EOR. Reports to include pile tip cutoff elevation relative to a common benchmark.	None	No Piles on Job			
<b>1704.10 ARCHITECTURAL WALL PANELS AND VENEERS</b>						
	Verify compliance of attachment of interior and exterior Architectural veneers to supporting structure for building in Seismic Design Category E or F.	None	Building is Seismic Design Category B			



**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

MATERIAL/ACTIVITY	EXTENT of INSPECTION (Continuous, Periodic, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
1704.11 SPRAYED FIRE-RESISTANT MATERIAL	None	No Sprayed Fire-Resistant material in building.			
a. Verify conformance of the prepared surface with manufacturer's specifications prior to application of material.	None				
b. Verify that substrate's ambient temperature meet manufacturer's specifications.	None				
c. Verify that material thickness meets design specifications.	None				
d. Verify that the material density meets the design specifications. Test in accordance with ASTM E 605	None				
e. Verify that bond strength between material and substrate is greater than or equal to 150 psf. Test in accordance with ASTM E 736 and IBC 2003 1704.11.5.1 – 1704.11.5.2	None				
1704.12 EXTERIOR AND INSULATION AND FINISH SYSTEMS (EIFS)	None	No EIFS on building.			
Verify conformance of EIFS installation with manufacturers and design specifications.	None				
1704.13 SPECIAL CASES COLD FORMED METAL FRAMING					
1. Horizontal Diaphragms and Vertical Shearwalls	None				
a. Inspect sheathing size, grade, and thickness for conformance with construction documents.	None				
b. Inspect sheathing fastener size and pattern for conformance with construction documents.	None				
Verify member size, thickness, material, and spacing is in accordance with design specifications and drawings.	None				
2. Framing	None				

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

MATERIAL/ACTIVITY	EXTENT of INSPECTION (Continuous, Periodic, Other, None)	COMMENTS	AGENT #	DATE COMPLETED	REV #
3. Framing Connections	Verify that member connections are in accordance with design specifications and drawings.				
4. Welding	Verify welding of cold formed members is in accordance with design specifications and AWS standards.				
5. Light Gage Trusses	a. Verify that light gage trusses are design in accordance with the loads specified on the contract documents. b. Verify that light gage trusses and truss bracing is installed per manufacturers specifications, contract documents, and BCSI 1-4-3 guidelines.				
1704.10 SMOKE CONTROL	a. Test ductwork for leakage and recode device locations prior to concealment of mechanical systems. b. Prior to building occupation, perform pressure difference testing, flow measurements and detection, and control monitoring.				



# Package Industries, Inc.

15 Harback Road Sutton, MA 01590  
 TEL (508) 865-5871 FAX (508) 865-9130 Email sales@pkgmail.com

## Letter of Certification (Page 1 of 2)

**Customer:**  
 Biskup Construction Inc.  
 16 Danielle Drive  
 Windham, ME 04062

**Project:**  
 Second Tee  
 1239 Riverside Street  
 Portland, ME 04103

**Date:** 4/11/2006  
**Project ID:** 0603-060

### Overall Building Description

Width (ft.)	Length (ft.)	Left Eave (ft.)	Right Eave (ft.)	Left Pitch (:12)	Right Pitch (:12)	Peak Height (ft.)	Ridge Offset (ft.)
75.0	100.0	21.56	20.0	N/A	0.25	21.56	75.0

This is to certify the above referenced building and its components have been designed in accordance with Package Industries, Inc.'s standard design practices and established pertinent procedures and recommendations of the following Organizations and/or Specifications.

American Institute of Steel Construction AISC 89  
 American Iron and Steel Institute NASPEC 01  
 American Welding Society Structural Welding Code (AWS D1.1) Metal Building Manufacturers Association (MBMA)  
 American Society for Testing and Materials (ASTM) AISC Category MB Manufacturers Certification

### Design Data

Building Code: IBC 03

Building Classification Category: Standard

Building End Use: Mixed

#### Snow Loads

Ground Snow (Pg) : 60.0 *psf*  
 Snow Exposure Factor (Ce) : 1.0  
 Snow Thermal Factor (Ct) : 1.0  
 Snow Importance Factor (Is) : 1.0  
 Flat Roof Snow (Pf) : 42.0 *psf*  
 Sloped Roof Factor (Cs) : 1.0  
 Sloped Roof Snow (Ps) : 42.0 *psf*  
 Design Roof Snow : 42.0 *psf*  
 % Snow Used in Seismic : 20

#### Roof Dead, Collateral & Live Loads

Dead Load : 3.0 *psf*  
 Collateral Load : 5.0 *psf*  
 Live Load : 20 *psf*  
 Live Load Reduction Taken : No

#### Wind Loads

Basic Wind Speed (3-second gust) : 94 *mph*  
 Wind Exposure : B  
 Wind Directionality Factor (Kd) : 0.85  
 Wind Topographic Factor (Kzt) : 1.0  
 Building Enclosure : c - closed  
 Importance (Iw) : 1.00  
 Reference Wind Pressure (Pv) : 22.6 *psf*  
 Internal Pressure Coeff. (GCpi) : +0.18

#### Seismic Loads

Seismic Hazard Group : I  
 Seismic Importance (Ie) : 1.0  
 0.2 Sec Spectral Response (Ss) : 0.3179  
 1.0 Sec Spectral Response (S1) : 0.0775  
 Design Spectral Response (Sds) : 0.328  
 Design Spectral Response (Sd1) : 0.124  
 Seismic Design Category : B  
 Soil Profile : D  
 Response Modification (OMF),R : 3.0  
 Response Modification (OCBF),R : 5.0  
 Seismic Response Coefficient (OMF),Cs : 0.1092  
 Seismic Response Coefficient (OCBF),Cs : 0.0655  
 Deflection Amplification (OMF),Cd : 3.0  
 Deflection Amplification (OCBF),Cd : 4.5  
 Design Base Shear (V) = Cs \* W :  
 Analysis Procedure : 1617.4

#### Auxiliary Load(s)

(3) 200 lb. suspended heater units (located max. 3' off frames)



## Package Industries, Inc.

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### Letter of Certification (Page 2 of 2)

*Customer:*  
Biskup Construction Inc.  
16 Danielle Drive  
Windham, ME 04062

*Project:*  
Second Tee  
Riverside Street  
Portland, ME 04103

*Date:* 4/11/2006  
*Project ID:* 0603-060

Additional Structural Material may be fabricated and provided for use in a Package Industries, Inc. building by any of the following fabricators:

#### Panels and Trims:

MBCI/NCI Building Components  
MBCI/NCI Building Components  
MBCI/NCI Building Components

Rome, ~~NY~~  
Richmond, VA  
Atlanta, GA

#### Barjoist and Decking:

Canam Steel Corp.  
Canam Steel Corp.  
John W. Hancock, Jr., Inc.  
Vulcraft Div., Nucor Corp.  
SMI Joist Company

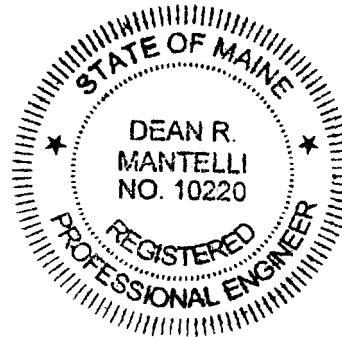
Point of Rocks, MD  
Columbus, OH  
Salem, VA  
St. Joe, IN  
Hope, Arkansas

This Letter of Certification applies solely to the building and its component parts as furnished by Package Industries, Inc., and specifically excludes any foundation, masonry, general contract work, materials or components not furnished by Package Industries, Inc., or any unauthorized modifications to framing systems furnished by Package Industries, Inc.. Inspections and/or erection certifications are not by Package Industries, Inc..

The Design and Certification for this project is in accord with the provisions and loads specified in the Order Documentation. The buyer is responsible for verifying that the specified loads above are in compliance with the local regulatory authorities.

Sincerely,

Dean R. Mantelli P.E.



Project: Second Tee  
 Location: Portland, ME 04103  
 Project#: 0603-060

Date: 4/18/2006  
 By: DRM

**Code IBC 2003**

Input Zip Code: 04103

USGS Location: 43.689 Latitude  
 -70.288 Longitude

USGS Hazard by Lat/Long 2002 (2% PE in 50yr.)

$S_s = 31.79\%g$   
 $S_1 = 7.75\%g$

**T. 1604.5 Building Occupancy Category for Wind, Snow and Seismic Loads**

Category	Nature of Occupancy
I	Low hazard buildings
II	All other buildings
III	Public gathering buildings
IV	Essential buildings
II	All other buildings

**1616.2 Seismic Use Group**

Bldg Cat.	Seismic Use Group
I	I
II	II
III	III
IV	I
II	II

**T. 1604.5 Occupancy Importance Factors**

Seismic Use Group	Seismic Importance Factor
I	1
II	1
III	1.25
IV	1.5

Seismic Use Group II  
 Site Class: D

Calculate  $S_{ms}$ : (Eq. 16-38)

$$S_{ms} = F_a S_s = (1.5457)(0.3179) = 0.4914$$

$$S_{DS} = 2/3(S_{ms}) = (2/3)(0.4914) = 0.3276$$

**T.1615.1.2(1)**

Values of

$F_a = 1.5457$

$S_{MS} = 0.4914$

$S_{DS} = 0.3276$

Site Class		$S_s \leq 0.25$	$S_s = 0.5$	$S_s = 0.75$	$S_s = 1.0$	$S_s \geq 1.25$
A	Hard rock	0.8	0.8	0.8	0.8	0.8
B	Rock	1	1	1	1	1
C	Dense soil	1.2	1.2	1.1	1.00	1
D	Stiff soil	1.6	1.4	1.2	1.10	1
E	Soil	2.5	1.7	1.2	0.90	**
F	Soft	**	**	**	**	**
D	Stiff soil	1.6	1.4	1.2	1.1	1

Use straight-line interpolation between these values

**T. 1616.3(1) Seismic Design Category Based on Short Period Response Accelerations**

	Value of $S_{DS}$	Seismic	Use	Group
		I	II	III
1	$S_{DS} < 0.167g$	A	A	A
2	$0.167g \leq S_{DS} < 0.33g$	B	B	C
3	$0.33g \leq S_{DS} < 0.5g$	C	C	D
4	$0.5g \leq S_{DS}$	D	D	D

$S_{DS} = 0.3276$   
 Design Category: **B**

Calculate  $S_{m1}$ : (Eq. 16-39)

$$S_{m1} = F_v S_1 = (2.4)(0.0775) = 0.1860$$

$$S_{d1} = 2/3(S_{m1}) = (2/3)(0.1860) = 0.1240$$

Site Class	$S_1 \leq 0.1$	$S_1 = 0.2$	$S_1 = 0.3$	$S_1 = 0.4$	$S_1 \geq 0.5$
A Hard rock	0.8	0.8	0.8	0.8	0.8
B Rock	1	1	1	1	1
C Dense soil	1.7	1.6	1.5	1.40	1.3
D Stiff soil	2.4	2	1.8	1.60	1.5
E Soil	3.5	3.2	2.8	2.40	**
F <i>soft</i>	**	**	**	**	**

Straight-line interpolation not required ( $S_1 \leq 0.1$ )

	Value of $S_{D1}$	Seismic	Use	Group
		I	II	III
1	$S_{D1} < 0.067g$	A	A	A
2	$0.067g \leq S_{D1} < 0.133g$	B	B	C
3	$0.133g \leq S_{D1} < 0.2g$	C	C	D
4	$0.29 \leq S_{D1}$	D	D	D

$S_{D1} = 0.124$   
 Design Category: **B**

Summary: Seismic Design Category = **B**

FROM DESIGNER: ARON S. WILSON - ASSOCIATED DESIGN PARTNERS INC

DATE: 4/25/06

Job Name: 1039 RIVERSIDE - LOT #3 SHELL ONLY

Address of Construction: 1039 RIVERSIDE DR.

2003 International Building Code

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

Building Code and Year 2003 IBC 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 IBC \_\_\_\_\_

Is the Structure mixed use? \_\_\_\_\_ if yes, separated or non separated (see Section 302.3) \_\_\_\_\_

Supervisory alarm system? \_\_\_\_\_ Geotechnical/Soils report required? (See Section 1802.2) \_\_\_\_\_

STRUCTURAL DESIGN CALCULATIONS

X Submitted for all structural members (100.1, 100.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads (7603.11, 1607)

Floor Area Use	Loads Shown
<u>TOD</u>	
_____	_____
_____	_____
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

1609.6 Design option utilized (1609.1.1, 1609.6)

94 Basic wind speed (1609.3)

1.0 Building category and wind importance factor,  $I_w$  (Table 1604.6, 1609.5)

B Wind exposure category (1608.4)

+/- 0.18 Internal pressure coefficient (ASCE 7)

+/- 34 Component and cladding pressures (1609.1.1, 1609.5.2.2)

+/- 19.1 Main force wind pressures (7603.1.1, 1609.6.2.1)

Earthquake design data (1603.1.5, 1614-1623)

1617.4 Design option utilized (1614.1)

II Seismic use group ("Category") (Table 1604.5, 1616.2)

0.327 / 0.124 Spectral response coefficients,  $S_{DS}$  &  $S_{D1}$  (1615.7)

D Site class (1616.1.5)

NO

Live load reduction (1603.1.1, 1607.9, 1607.10)

20

Roof live loads (1603.1.2, 1607.11)

Roof snow loads (7603.7.3, 1608)

60

Ground snow load,  $P_g$  (1608.2)

42

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

1.0

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

1.0

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

1.0

Roof thermal factor,  $C_t$  (Table 1608.3.2)

42

Sloped roof snowload,  $P_s$  (1608.4)

B

Seismic design category (1616.3)

3-D

Basic seismic-force-resisting system (Table 1617.8.2)

3/3

Response modification coefficient,  $R$ , and deflection amplification factor,  $C_d$  (Table 1617.8.2)

1617.4

Analysis procedure (1616.6, 1617.5)

V=65-W

Design base shear (1617.4, 1617.5.1)

Flood loads (1603.1.6, 1612)

N/A

Flood hazard area (1612.3)

69.0'

Elevation of structure

Other loads

N/A

Concentrated loads (1607.4)

N/A

Partition loads (1607.5)

N/A

Impact loads (1607.8)

N/A

Misc. loads (Table 1607.8, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



• *Geotechnical Engineering* • *Field & Lab Testing* • *Scientific & Environmental Consulting*

04-0238

April 1, 2004

Hardy Pond Construction  
Attention: Bob Goudreau  
1039 Riverside Street, Suite 11  
Portland, Maine 04103

Subject: Preliminary Geotechnical Engineering Services  
Limited Investigation  
Bearing Capacity Assessment  
Proposed Second Tee Business Park  
**1039** Riverside Street  
Portland, Maine

Dear Mr. Goudreau:

As requested, S. W. COLE ENGINEERING, INC. has observed a subsurface investigation for the proposed Second Tee Business Park located at 1039 Riverside Street in Portland, Maine. The purpose of our work was to observe the subsurface conditions at the site and provide a preliminary assessment of allowable soil bearing capacity. The contents of this report are subject to the limitations set forth in Attachment A.

### **PROPOSED CONSTRUCTION**

We understand that a new business park is proposed on a 16-acre parcel of land at 1039 Riverside Street in Portland, Maine. The parcel will be developed for 10 structures measuring from 6,000 to 25,000 square feet. The structures will be one story metal buildings with finish floor grades within 1 to 2 feet of existing grade and light floor loading.

### **EXPLORATION AND TESTING**

As requested, we observed four test pits made at the site on March 26, 2004. The explorations were selected and located in the field by Hardy Pond Construction. The approximate locations of the explorations are shown on the "Exploration Location Sketch" attached as Sheet 1.





04-0238  
April 1, 2004

Logs of the explorations, based on our observations and laboratory testing are attached as Sheets 2 and 3. A key to the notes and symbols used on the logs is attached as Sheet 4.

Laboratory testing was performed on selected samples recovered from the explorations. One grain size analysis was performed and the results are presented on Sheets 5 and 6.

### **SUBSURFACE CONDITIONS**

Test Pits TP-1 through TP-4 generally encountered 0.5 to 1.0 feet of dark brown sandy silt with organics overlying 4 to 6 feet of brown silty fine to medium sand. The silty sand overlies gray silty sand with silt and clay layers. Test Pits TP-1 through TP-3 were terminated in the gray silty sand at a depth of 8.5, 8.0 and 6.0 feet, respectively. Test Pit TP-4 encountered gray silty clay at a depth of 7 feet and was terminated at 8.0 feet.

Groundwater was observed in the explorations at depths of about 4 to 4.5 feet at the time of the fieldwork. The soils were generally wet below the ground surface. Long-term groundwater information is not available.

### **EVALUATIONS AND RECOMMENDATIONS**

Based on our observations and shallow groundwater conditions encountered, we recommend that the footings be placed on 8 inches of crushed stone over a geotextile fabric placed on the undisturbed native silt sand. We further recommend that a smooth edged bucket be utilized to excavate to subgrade in order to reduce disturbance of the bearing soils. Footings should be placed at a depth of at least 4.5 feet below exterior finish grade to provide frost protection. Based on the findings at the widely spaced test pits, we recommend that preliminary foundation design consider a net allowable bearing contact pressure not exceeding 2.5 ksf. All footings should be at least 24 inches in width.

Groundwater will be encountered during excavation work. Sumping and pumping dewatering techniques should be adequate to control groundwater below footing subgrade elevation. Controlling the water levels to a at least one foot below subgrade elevations **will** help **stabilize** the subgrade and provide **a** more suitable working surface during construction.

Our services have been limited by the client to widely spaced test pits and providing a preliminary assessment of allowable soil bearing capacity at those locations. Other services were specifically not requested by the client. We recommend that additional explorations



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April 1, 2004

including test pits and/or test borings be made specific to each structure proposed at the site. This is to determine if soil conditions are consistent with those found at these explorations.

S. W. COLE ENGINEERING, INC. should be on-site to observe subgrades prior to fill or concrete placement in the event that subsurface conditions are found to differ from those anticipated. **S. W. COLE ENGINEERING, INC.** is available to provide field and laboratory testing of soils, concrete, asphalt, masonry , spray-applied fire-proofing and structural steel.

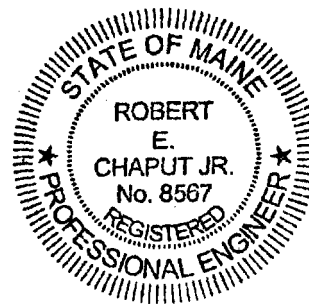
### **CLOSING**

It has been a pleasure to be of assistance to you with this phase of your project. If you have any questions or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

**S. W. COLE ENGINEERING, INC.**

Robert E. Chaput, Jr., P.E.  
Vice President



REC:kml

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## **ATTACHMENT A**

### **Limitations**

This report has been prepared for the exclusive use of Hardy Pond Construction for specific application to the Proposed Second Tee Business Park at 1039 Riverside Street in Portland, Maine as described herein. Our services were limited by Hardy Pond Construction to an assessment of soil bearing capacity only and a deeper soils investigation to evaluate settlement and other geotechnical considerations was specifically excluded by Hardy Pond Construction. Hardy Pond Construction 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.



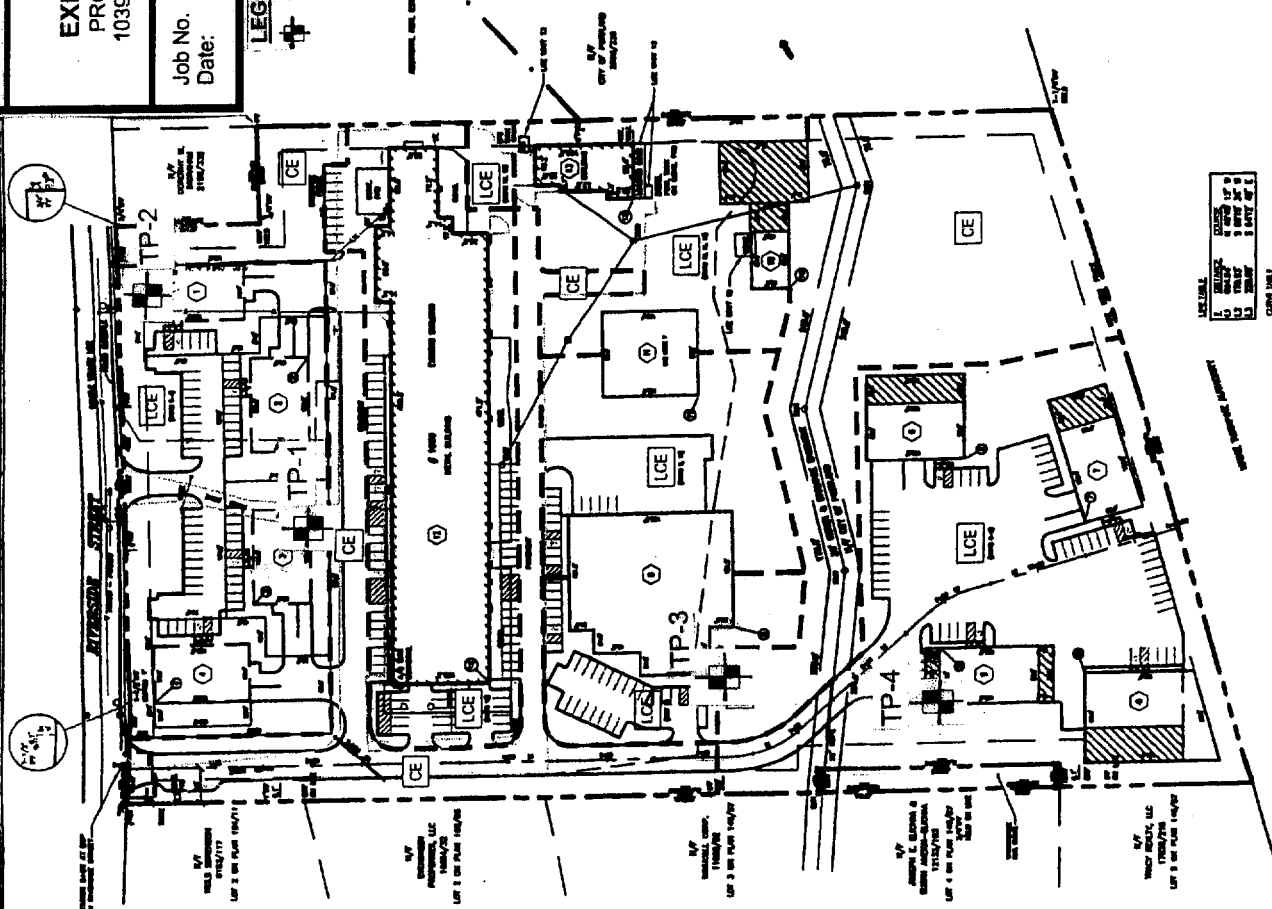
**HARDY POND CONSTRUCTION  
EXPLORATION LOCATION SKETCH**  
PROPOSED SECOND TEE BUSINESS PARK  
1039 RIVERSIDE STREET, PORTLAND, MAINE

Job No. 04-0238  
Date: 04/01/04

Sheet 1

**LEGEND**  
TEST PIT LOCATION

- |          |                       |
|----------|-----------------------|
| Symbol   | Description           |
| (Symbol) | TEST PIT LOCATION     |
| (Symbol) | CONCRETE              |
| (Symbol) | ASPHALT               |
| (Symbol) | GRAVEL                |
| (Symbol) | CLAY                  |
| (Symbol) | SAND                  |
| (Symbol) | ROCK                  |
| (Symbol) | CONCRETE FOUNDATION   |
| (Symbol) | FOUNDATION WALL       |
| (Symbol) | FOUNDATION FOOTING    |
| (Symbol) | FOUNDATION BENCH MARK |
| (Symbol) | FOUNDATION ELEVATION  |
| (Symbol) | FOUNDATION AREA       |
| (Symbol) | FOUNDATION PERIMETER  |
| (Symbol) | FOUNDATION CENTERLINE |
| (Symbol) | FOUNDATION CORNER     |
| (Symbol) | FOUNDATION CUT        |
| (Symbol) | FOUNDATION FINISH     |
| (Symbol) | FOUNDATION ELEVATION  |
| (Symbol) | FOUNDATION AREA       |
| (Symbol) | FOUNDATION PERIMETER  |
| (Symbol) | FOUNDATION CENTERLINE |
| (Symbol) | FOUNDATION CORNER     |
| (Symbol) | FOUNDATION CUT        |
| (Symbol) | FOUNDATION FINISH     |



**STATION AND OFFSET**

Station	Offset
1+00	100'
2+00	200'
3+00	300'
4+00	400'
5+00	500'
6+00	600'
7+00	700'
8+00	800'
9+00	900'
10+00	1000'

DATE BY  
DRAWN BY  
CHECKED BY  
APPROVED BY

**NOTES**

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**PLAN REFERENCES**

1. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
2. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
3. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
4. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
5. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
6. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106
7. SWCOLE ENGINEERING, INC. 1039 RIVERSIDE STREET, PORTLAND, MAINE 04106

**UNITS:**  
LENGTH: FEET  
AREA: SQUARE FEET  
VOLUME: CUBIC FEET  
ANGLE: DEGREES



**CONCRETE**

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1. CONCRETE	1000	CY	150.00	150.00
2. REINFORCING STEEL	100	LB	0.50	50.00
3. FORMWORK	1000	SQ FT	0.10	100.00
4. ADJUSTERS	100	EA	1.00	100.00
5. BRACKETS	100	EA	0.50	50.00
6. WOOD SHIMS	100	EA	0.20	20.00
7. SAND	1000	CY	10.00	10.00
8. GRAVEL	1000	CY	12.00	12.00
9. ASPHALT	1000	SQ FT	0.10	100.00
10. GROUNDWORK	1000	SQ FT	0.10	100.00

STATE OF MAINE  
COUNTY SS REGISTRY OF DEEDS

RECEIVED \_\_\_\_\_ 20\_\_\_\_  
AT \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ AND RECORDED IN  
PLAN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_ REGISTER  
ATTEST \_\_\_\_\_

**APPROVAL - CITY OF PORTLAND  
PLANNING AUTHORITY**

DATE \_\_\_\_\_  
COMMISSIONER \_\_\_\_\_

**CONDOMINIUM PLAT**  
RECORD THE ENCLOSED PLAT CONTAINING  
1039 RIVERSIDE STREET, PORTLAND, MAINE  
1039 RIVERSIDE STREET, PORTLAND, MAINE  
**OWEN HASKELL, INC.**

**GENERAL**

NO.	DATE	DESCRIPTION	BY
1	04/01/04	ISSUED	SWCOLE
2	04/01/04	REVISION	SWCOLE



# S.W. COLE ENGINEERING, INC.

## TEST PIT LOGS

PROJECT/CLIENT PROPOSED SECOND TEE BUSINESS PARK / HARDY POND CONSTRUCTION  
 LOCATION 1039 RIVERSIDE STREET, PORTLAND, MAINE  
 BACKHOE FIRM HARDY POND CONSTRUCTION OPERATOR BOB GOUDREAU

PROJECT NO 04-0238  
 SWC REP TJG

### TEST PIT TP-1

DATE: 3/26/2004 SURFACE ELEVATION: NOT AVAIL. LOCATION: SEE SHEET 1

SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN SANDY SILT, TRACE GRAVEL WITH ORGANICS	
		LIGHT BROWN SILTY FINE TO MEDIUM SAND	
	5.3'		
		GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
	8.5'		
		BOTTOM OF EXPLORATION AT 8.5'	
COMPLETION DEPTH: <u>8.5'</u>		DEPTH TO WATER: <u>4'</u>	

### TEST PIT TP-2

DATE: 3/26/2004 SURFACE ELEVATION: NOT AVAIL. LOCATION: SEE SHEET 1

SAMPLE NO	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	1.0'	DARK BROWN SANDY SILT WITH ORGANICS	
		LIGHT BROWN SILTY FINE TO MEDIUM SAND	
S-2	4'		
	5.0'		
		GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
	8.0'		
		BOTTOM OF EXPLORATION AT 8'	
COMPLETION DEPTH: <u>8'</u>		DEPTH TO WATER: <u>4.5'</u>	



# S.W. COLE

ENGINEERING, INC.

## TEST PIT LOGS

PROJECT/CLIENT: PROPOSED SECOND TEE BUSINESS PARK / HARDY POND CONSTRUCTION  
 LOCATION: 1039 RIVERSIDE STREET, PORTLAND, MAINE  
 BACKHOE FIRM: HARDY POND CONSTRUCTION OPERATOR: BOB GOUDREAU

PROJECT NO.: 04-0238  
 SWC REP.: TJC

TEST PIT <u>TP-3</u>			
DATE: <u>3/26/2004</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	0.5'	BROWN SAND AND GRAVEL, TRACE COBBLES	
	45'	ORANGE/BROWN SILTY FINE TO MEDIUM SAND <sup>ID</sup>	
S-3	5.5'	GRAY FINE SAND WITH SILT AND CLAY LAYERS	
	6.00'	BOTTOM OF EXPLORATION AT 6'	
COMPLETION DEPTH: <u>6'</u>		DEPTH TO WATER: <u>4'</u>	

TEST PIT <u>TP-4</u>			
DATE: <u>3/26/2004</u>		SURFACE ELEVATION: <u>NOT AVAIL.</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH (FT)	STRATUM DESCRIPTION	TEST RESULTS
	8"	DARK BROWN SANDY SILT WITH ORGANICS	
		LIGHT BROWN FINE SANDY SILT	
	3.5'	BROWN SILTY SAND	
	6.5'		
	7.0'	GRAY SILTY FINE SAND WITH SILT AND CLAY LAYERS	
S-4	7.5'	GRAY SILTY CLAY	
	8.0'	BOTTOM OF EXPLORATION AT 8'	
COMPLETION DEPTH: <u>8'</u>		DEPTH TO WATER: <u>NO FREE WATER 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 <sub>u</sub>	-	unconfined compressive strength, kips/sq. ft. - based on laboratory unconfined compressive test
S <sub>v</sub>	-	field vane shear strength, kips/sq. ft.
L <sub>v</sub>	-	lab vane shear strength, kips/sq. ft.
q <sub>p</sub>	-	unconfined compressive strength, kips/sq. ft. based on pocket penetrometer test
O	-	organic content, percent (dry weight basis)
W <sub>L</sub>	-	liquid limit - Atterberg test
W <sub>P</sub>	-	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 <sub>T</sub>	-	total soil weight
γ <sub>B</sub>	-	buoyant soil weight

#### **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.

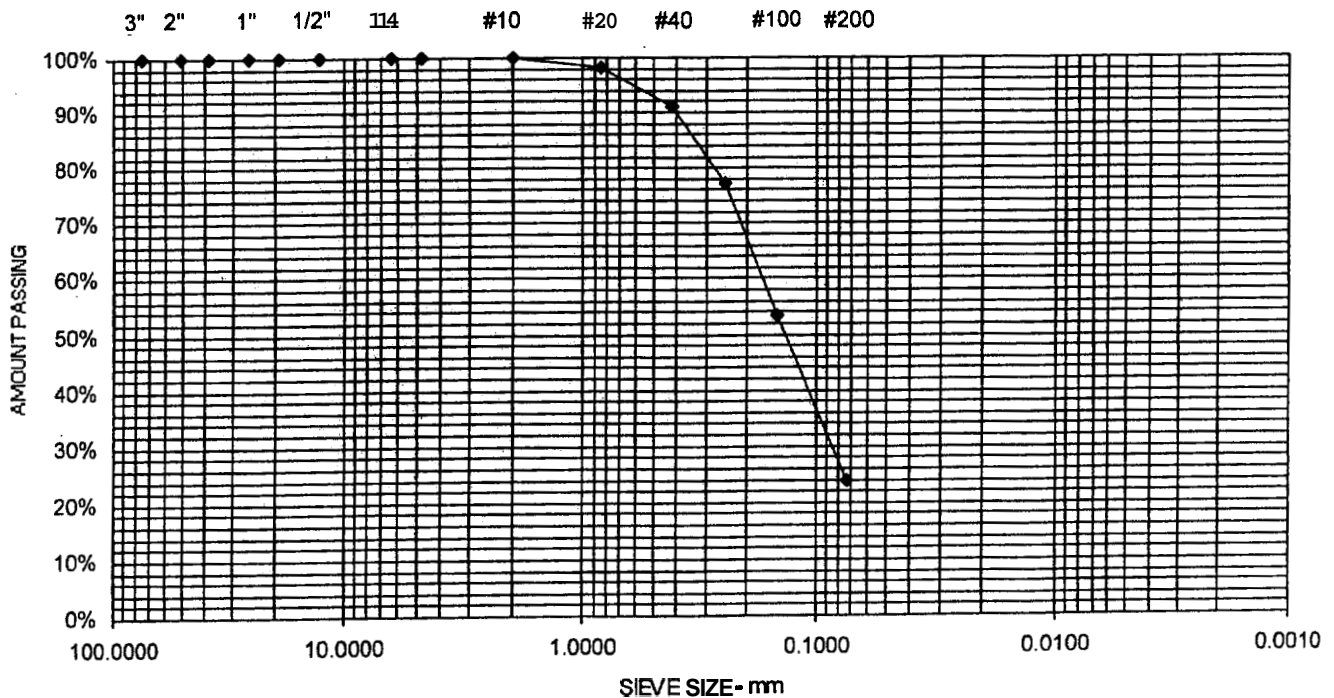
**REFUSAL: Test Pit Explorations** - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

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.

Project Name HARDYPOND PORTLAND RIVERSIDE COMMERCIAL SUBDIVISION  
 SSI  
 Client HARDYPOND CONSTRUCTION INC  
 Exploration **TP-2,S-2,4.0'**  
 Material Source

Project Number 04-0238  
 Lab ID 984A  
 Date Received 3/26/2004  
 Date Completed 3/29/2004  
 Tested By RYAN BRAGG

<u>SIEVE OPENING (mm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
152.4	6"	100	
127	5"	100	
101.6	4"	100	
76.1	3"	100	
50.8	2"	100	
38.1	1-1/2"	100	
25.7	1"	100	
19	3/4"	100	
12.7	1/2"	100	
6.35	1/4"	100	
4.76	No. 4	100	0% Gravel
2	No. 10	100	
0.841	No. 20	98	
0.42	No. 40	91	76.3% Sand
0.25	No. 60	77	
0.149	No. 100	53	
0.074	No. 200	23.7	23.7% Fines







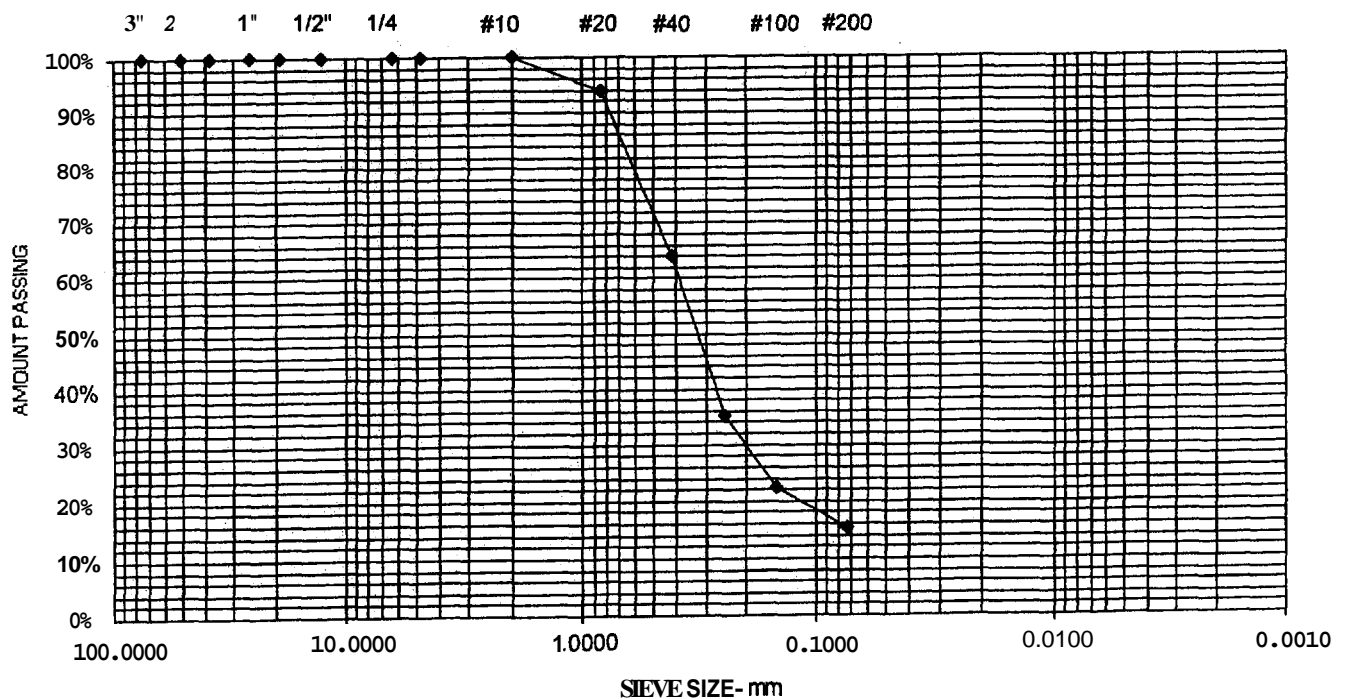
# Report of Gradation

ASTM C-117 & C-136

Project Name **HARDYPOND PORTLAND RIVERSIDE COMMERCIAL SUBDIVISION**  
 SSI  
 Client **HARDYPOND CONSTRUCTION INC**  
 Exploration **TP-3,S-3,5.5'**  
 Material Source

Project Number **04-0238**  
 Lab ID **985A**  
 Date Received **3/26/2004**  
 Date Completed **3/29/2004**  
 Tested By **RYAN BRAGG**

<u>SIEVE OPENING (mm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
152.4	6"	100	
127	5"	100	
101.6	4"	100	
76.1	3"	100	
50.8	2	100	
38.1	1-1/2"	100	
25.7	1"	100	
19	3/4"	100	
12.7	1/2"	100	
6.35	1/4"	100	
4.76	No. 4	100	0% Gravel
2	No. 10	100	
0.841	No. 20	94	
0.42	No. 40	64	84.5% Sand
0.25	No. 60	35	
0.149	No. 100	23	
0.074	No. 200	15.5	15.5% Fines



Comments